

between them appears to an observer to form complete rings or concentric bands of brightly colored lights. To some observers the smallest circle at the center appears to be nearer the eye and the larger circle nearer the light; to other observers the opposite appears to be the case.

Several attempts at an explanation have been made in the Cumberland newspapers, but we think the truth is that the circles of light are produced by the optical action called interference of the waves of light. A beam of light, as analyzed by a prism, is said to be composed of an almost infinite number of waves which are exceedingly short and oscillate with great rapidity. The slower oscillations produce red and yellow lights while the most rapid oscillations produce blue and violet lights. If we pick out a single set of homogeneous waves producing yellow light, for instance, we find that as these attempt to pass by the edges of the twigs, or any other object, they curve around the edge and are said to be inflected or diffracted very much as waves of water or of sound curve around any obstacle. The wave that curves around one edge of a twig will interfere with the one that curves around the other edge, and as they both pass on they intersect and interfere with each other so that there are places in the path of each wave where one neutralizes the other, producing dark-

ness. Midway between these bright regions are others where they reinforce each other producing greater brightness. These dark and bright places are arranged in circles around the central line of sight from the eye to the arc light. The circles made by the blue rays are a little smaller than those made by yellow or red light, therefore, with ordinary light the eye usually perceives concentric bluish and reddish rings if these are not overpowered by the yellow ones.

This phenomenon was first studied by Sir Isaac Newton (who thought that light was the effect of minute atoms shot in straight lines from the sun to the earth), and he explained it, as well as the colors of the soap bubble, by assuming that the atoms had "fits of easy reflection." But modern students have been better satisfied with the wave theory of light and the interference of waves as described above.

We shall not attempt to explain why some observers imagine the smallest, central circles farther off than the larger outward ones, while others imagine the contrary. This is a so-called subjective phenomenon and its study belongs to psychology. In an instrument for determining the average diameter of the fibres of wool, hair, cotton, etc., this same principle was made use of early in this century, before the microscope was brought to its present degree of perfection.

METEOROLOGICAL TABLES AND CHARTS.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only one observation, the data ordinarily needed for climatological studies, viz., the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation, the total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,700 stations occupied by voluntary observers, the highest maximum and the lowest minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (. . .).

Table III gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Table IV gives, for 26 stations selected out of 113 that maintain continuous records, the mean hourly temperatures deduced from the Richard thermographs described and figured in the Report of the Chief of the Weather Bureau, 1891-92, p. 29.

Table V gives, for 26 stations selected out of 104 that maintain continuous records, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-92, pp. 26 and 30.

Table VI gives, for about 130 stations, the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording

mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-92, p. 19.

Table VII gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division the average resultant direction for that division can be obtained.

Table VIII gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table IX gives, for about 70 stations, the average hourly sunshine (in percentages) as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table X gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

| | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Duration, minutes.. | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 100 | 120 |
| Rates pr. hr. (ins.).. | 8.00 | 1.80 | 1.40 | 1.20 | 1.08 | 1.00 | 0.94 | 0.90 | 0.86 | 0.84 | 0.75 | 0.60 | 0.54 | 0.50 |

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table XI gives the record of excessive precipitation at all stations from which reports are received.

NOTES EXPLANATORY OF THE CHARTS.

Chart I.—Tracks of centers of high areas. The roman

letters show number and order of centers of high areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the highest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a ridge of high pressure.

Chart II.—Tracks of centers of low areas. The roman letters show number and order of centers of low areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the lowest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a trough or long oval area of low pressure.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all, by 0.0.

Chart IV.—Sea-level isobars and isotherms, and resultant winds. The wind directions on this Chart are the computed resultants of observations at 8 a. m. and 8 p. m., daily; the resultant duration is shown by figures attached to each arrow.

The temperatures are the means of daily maxima and minima and are reduced to sea level. The pressures are the means of 8 a. m. and 8 p. m. observations, daily, and are reduced to sea level and to standard gravity. The reduction for 30 inches of the mercurial barometer, as formerly shown by the marginal figures for each degree of latitude, has already been applied.

Chart V.—Hydrographs for seven principal rivers of the United States.

Chart VI.—Surface temperatures; maximum, minimum, and mean. Lines of equal monthly mean temperature in red; lines of equal maximum temperature in black; and lines of equal minimum temperature (dotted) also in black.

Chart VII.—Percentage of sunshine. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of sunshine, and the values thus obtained have been used in preparing Chart VII.

Chart VIII.—The total snowfall. This is based on the reports from all available observers and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines and areas of equal snowfall, but in some cases figures are also given for special localities.

Chart IX.—Depth of snow on ground. This chart is based essentially upon reports from regular and special observers and shows the depth of snow lying on the ground at the end of the month, which is, therefore, the accumulated excess of the snowfall over its loss by melting, evaporation, and settling.

TABLE I.—Climatological data for Weather Bureau Stations, December, 1898.

| Stations. | Elevation of instruments. | | Pressure, in inches. | | Temperature of the air, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | Wind. | | Total snowfall. | | | | | | | | | | | | | | | | | | |
|---------------------|----------------------------------|----------------------------|-------------------------------------|---------------|--|-------------------------|----------|-------|---------------|-------|---------------------------|-----------------------|------------------------|------------------------------------|-----------------------------------|-----------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Barometer above sea level, feet. | Thermometers above ground. | Mean actual, 8 a.m. and 8 p.m. + 2. | Mean reduced. | Departure from normal. | Mean max. and min. + 2. | Maximum. | Date. | Mean maximum. | Date. | Mean minimum. | Greatest daily range. | Mean wet thermometer. | Mean temperature of the dew point. | Mean relative humidity, per cent. | Total. | | | | | | | | | | | | | | | | | |
| | Anemometer above ground. | | Mean actual, 8 a.m. and 8 p.m. + 2. | Mean reduced. | Departure from normal. | Mean max. and min. + 2. | Maximum. | Date. | Mean maximum. | Date. | Mean minimum. | | Days with 0.1 or more. | Total movement, miles. | Prevailing direction. | Miles per hour. | Date. | | | | | | | | | | | | | | | | |
| New England. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eastport. | 76 | 69 | 74 | 29.85 | 29.94 | - .03 | 26.3 | + 0.8 | 46 | 5 | 34 | - 7 | 29 | 19 | 38 | 24 | 2.55 | - 1.1 | 16 | 8,578 | w. | 72 | e. | 5 | 13 | 13 | 6.8 | 19.4 | | | | | |
| Portland, Me. | 103 | 81 | 89 | 29.84 | 29.95 | - .07 | 25.6 | - 0.8 | 48 | 30 | 31 | - 6 | 14 | 19 | 30 | 23 | 2.85 | - 0.7 | 13 | 5,574 | s.w. | 50 | e. | 5 | 15 | 7 | 5.5 | 12.6 | | | | | |
| Northfield. | 872 | 15 | 65 | 29.00 | 29.99 | - .06 | 21.0 | - 0.4 | 56 | 30 | 30 | - 24 | 14 | 13 | 44 | 20 | 17 | 81 | 1.36 | - 1.7 | 14 | 7,033 | s. | 34 | a. | 30 | 14 | 8 | 20 | 7.8 | 9.3 | | |
| Boston. | 125 | 115 | 131 | 29.57 | 30.01 | - .04 | 20.9 | + 0.9 | 58 | 30 | 39 | 0 | 14 | 25 | 33 | 28 | 22 | 89 | 2.19 | - 1.3 | 8 | 8,834 | s.w. | 50 | e. | 5 | 14 | 15 | 5.9 | 7.7 | | | |
| Nantucket. | 14 | 43 | 54 | 30.02 | 30.03 | - .03 | 35.7 | - 0.7 | 52 | 23 | 41 | 10 | 14 | 30 | 30 | 38 | 29 | 73 | 2.22 | - 2.0 | 9 | 9,364 | n.w. | 54 | se. | 5 | 18 | 12 | 6.3 | 1.7 | | | |
| Woods Hole. | 22 | 51 | 57 | ..... | ..... | ..... | 33.8 | - 1.3 | 53 | 23 | 39 | 8 | 14 | 29 | 32 | 30 | 27 | ..... | 2.97 | - 0.5 | 6 | 9,226 | s.w. | 48 | s.w. | 5 | 15 | 8 | 13 | 4.9 | 1.0 | | |
| Vineyard Haven. | 20 | ..... | ..... | ..... | ..... | ..... | 36.2 | - 1.4 | 56 | 23 | 42 | 10 | 20 | 30 | 30 | 38 | 30 | ..... | 2.95 | - 0.8 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.8 | | | | |
| Block Island. | 27 | 89 | 48 | 30.01 | 30.04 | - .02 | 34.6 | - 1.6 | 53 | 5 | 40 | 8 | 14 | 30 | 30 | 32 | 27 | 72 | 3.22 | - 0.4 | 9 | 13,695 | n.w. | 69 | e. | 4 | 10 | 11 | 5.4 | 1.8 | | | |
| Narragansett. | 10 | ..... | ..... | ..... | ..... | ..... | 31.8 | - 1.0 | 50 | * 39 | 1 | 24 | 24 | 35 | 30 | 27 | 28 | ..... | 2.61 | - 1.1 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.0 | | | | |
| New Haven. | 107 | 118 | 140 | 29.92 | 30.04 | - .05 | 31.0 | - 1.3 | 53 | 30 | 33 | 2 | 14 | 24 | 27 | 28 | 24 | 76 | 2.11 | - 1.3 | 10 | 6,900 | s.w. | 54 | c. | 5 | 14 | 7 | 10 | 4.9 | 3.0 | | |
| Mid. Atlan. States. | | | | | | | 35.8 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albany. | 97 | 84 | 113 | 29.93 | 30.04 | - .04 | 29.0 | + 0.4 | 51 | 30 | 36 | - 5 | 14 | 22 | 32 | 26 | 21 | 74 | 2.62 | - 0.7 | 1 | 8,764 | s. | 60 | ne. | 5 | 6 | 10 | 15 | 6.9 | 7.3 | | |
| Binghamton. | 875 | 79 | 90 | ..... | ..... | ..... | 27.8 | - 0.7 | 58 | 30 | 35 | - 3 | 14 | 21 | 30 | 31 | 27 | 75 | 1.45 | - 1.4 | 15 | 6,123 | w. | 34 | e. | 4 | 10 | 12 | 17 | 7.5 | 5.8 | | |
| New York. | 314 | 313 | 846 | 29.71 | 30.06 | - .04 | 34.4 | 0.0 | 50 | 31 | 41 | 12 | 14 | 28 | 36 | 31 | 27 | 75 | 2.93 | - 0.4 | 12 | 14,72 | n.w. | 78 | ..... | 4 | 9 | 11 | 11 | 5.8 | 1.1 | | |
| Harrisburg. | 377 | 94 | 104 | 29.88 | 30.08 | - .05 | 31.8 | - 2.6 | 57 | 30 | 38 | 11 | 14 | 26 | 41 | 31 | 26 | 70 | 3.16 | + 0.1 | 10 | 6,535 | s.w. | 44 | e. | 4 | 13 | 7 | 11 | 5.5 | 5.4 | | |
| Philadelphia. | 117 | 168 | 184 | 29.95 | 30.08 | - .05 | 35.9 | + 0.4 | 60 | 30 | 42 | 16 | 14 | 30 | 35 | 31 | 26 | 70 | 2.31 | - 0.5 | 10 | 5,752 | s.w. | 48 | se. | 4 | 10 | 8 | 18 | 6.0 | 0.8 | | |
| Atlantic City. | 52 | 68 | 76 | 30.03 | 30.09 | - .02 | 36.4 | 0.0 | 56 | 4 | 43 | 12 | 14 | 30 | 28 | 33 | 30 | 80 | 2.40 | - 1.5 | 10 | 8,687 | n.w. | 50 | se. | 4 | 10 | 9 | 12 | 5.6 | 0.4 | | |
| Cape May. | 24 | 52 | 70 | 30.09 | 30.11 | - .03 | 37.6 | - 0.3 | 54 | 4 | 42 | 21 | 14 | 33 | 32 | 34 | 26 | 69 | 2.53 | + 0.2 | 9 | 4,180 | w. | 54 | e. | 4 | 16 | 5 | 10 | 4.6 | 0.6 | | |
| Baltimore. | 123 | 68 | 82 | 29.95 | 30.09 | - .05 | 36.2 | - 1.3 | 60 | 30 | 43 | 14 | 14 | 30 | 42 | 34 | 26 | 69 | 3.56 | + 0.6 | 10 | 4,677 | s. | 36 | e. | 4 | 15 | 4 | 12 | 4.9 | 1.6 | | |
| Washington. | 112 | 59 | 76 | 29.99 | 30.12 | - .04 | 35.6 | - 0.6 | 68 | 30 | 44 | 12 | 14 | 27 | 38 | 31 | 25 | 69 | 1.54 | - 2.3 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.5 | | | |
| Cape Henry. | 5 | 34 | 42 | 32.6 | 42.6 | - 1.3 | 69 | 50 | 18 | 15 | 35 | 36 | 30 | 27 | 34 | 32 | 75 | 2.58 | - 0.9 | 10 | 4,487 | s.w. | 36 | s.w. | 4 | 11 | 8 | 12 | 5.2 | 0.5 | | | |
| Lynchburg. | 685 | 88 | 88 | 29.86 | 30.13 | - .03 | 38.8 | - 0.5 | 68 | 21 | 48 | 14 | 15 | 30 | 32 | 34 | 29 | 74 | 4.35 | + 1.3 | 9 | 3,246 | s.w. | 27 | n. | 10 | 14 | 10 | 7 | 4.6 | T. | | |
| Norfolk. | 57 | 88 | 93 | 30.08 | 30.15 | + .01 | 43.2 | + 0.4 | 70 | 30 | 52 | 20 | 15 | 35 | 34 | 38 | 34 | 75 | 1.90 | - 1.8 | 6 | 6,200 | s.w. | 36 | s.w. | 4 | 17 | 7 | 12 | 4.3 | 0.5 | | |
| Richmond. | 144 | 98 | 105 | | | | 48.0 | - 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| S. Atlantic States. | | | | | | | 55.0 | - 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charlotte. | 773 | 68 | 76 | 29.30 | 30.15 | - .02 | 49.0 | - 0.6 | 68 | 21 | 51 | 15 | 15 | 35 | 38 | 39 | 31 | 69 | 2.12 | - 2.0 | 7 | 5,554 | s.w. | 45 | s.w. | 4 | 12 | 9 | 10 | 4.9 | 0.4 | | |
| Hatteras. | 11 | 17 | 36 | 30.14 | 30.15 | + .01 | 47.6 | - 0.6 | 68 | 4 | 53 | 28 | 14 | 42 | 37 | 44 | 41 | 81 | 3.38 | - 2.1 | 11 | 9,948 | n. | 88 | n. | 14 | 11 | 9 | 11 | 5.5 | 0.5 | | |
| Kittyhawk. | 9 | 12 | 30 | ..... | ..... | ..... | 45.7 | - 0.5 | 68 | 20 | 55 | 24 | 10 | 37 | 37 | 27 | 29 | 75 | 1.80 | - 1.3 | 7 | 10,029 | ..... | ..... | ..... | 14 | ..... | 5 | 12 | 5.5 | 0.5 | | |
| Raleigh. | 375 | 93 | 101 | 29.75 | 30.16 | - .04 | 43.6 | - 0.3 | 68 | 21 | 52 | 14 | 15 | 35 | 31 | 38 | 33 | 71 | 1.88 | - 0.8 | 9 | 4,835 | s.w. | 36 | w. | 4 | 11 | 8 | 12 | 5.5 | 0.5 | | |
| Wilmington. | 75 | 83 | 90 | 30.09 | 30.18 | + .02 | 48.4 | + 0.1 | 73 | 20 | 56 | 74 | 14 | 40 | 30 | 43 | 38 | 76 | 2.40 | - 0.6 | 10 | 5,752 | w. | 36 | s.w. | 4 | 8 | 7 | 11 | 6.3 | 0.5 | | |
| Charleston. | 48 | 14 | 92 | 30.16 | 30.21 | + .05 | 51.2 | - 0.3 | 73 | 21 | 55 | 29 | 14 | 44 | 37 | 40 | 34 | 71 | 2.32 | - 0.9 | 10 | 7,440 | n. | 34 | s.w. | 4 | 8 | 12 | 11 | 5.8 | 0.5 | | |
| Columbia. | 5 | ..... | ..... | ..... | ..... | ..... | 46.8 | - 1.7 | 75 | 21 | 56 | 29 | 14 | 40 | 35 | 33 | 74 | 1.46 | - 1.5 | 8 | ..... | ..... | ..... | 9 | 16 | 6.5 | 0.5 | 0.5 | | | | | |
| Augusta. | 180 | 89 | 103 | 29.98 | 30.17 | + .01 | 47.8 | + 0.1 | 73 | 20 | 59 | 31 | 10 | 44 | 26 | 45 | 40 | 74 | 2.39 | - 1.0 | 11 | 6,614 | n.w. | 36 | s.w. | 4 | 13 | 6 | 12 | 5.2 | 0.5 | | |
| Savannah. | 82 | 63 | 80 | 30.10 | 30.19 | + .01 | 51.4 | - 1.0 | 73 | 20 | 59 | 31 | 10 | 44 | 26 | 45 | 40 | 74 | 2.16 | - 1.0 | 11 | 6,605 | s.w. | 31 | w. | 4 | 11 | 7 | 13 | 5.7 | 0.5 | | |
| Jacksonville. | 43 | 69 | 84 | 30.14 | 30.19 | + .03 | 54.8 | - 1.2 | 73 | 20 | 59 | 33 | 16 | 46 | 27 | 50 | 47 | 84 | 4.74 | - 1.9 | 14 | 5,561 | n. | 36 | s.w. | 4 | 11 | 9 | 11 | 5.1 | 0.5 | | |
| Florida Peninsula. | | | | | | | 65.6 | - 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jupiter. | 28 | 13 | 30 | 30.18 | 30.16 | - .01 | 66.2 | - 0.5 | 84 | 3 | 73 | 41 | 28 | 60 | 58 | 69 | 55 | 79 | 2.56 | - 0.1 | 8 | 7,700 | n.w. | 28 | s. | 22 | 14 | 12 | 5 | 4.3 | 0.4 | | |
| Key West. | 22 | 43 | 50 | 30.13 | 30.15 | + .03 | 70.5 | + 0.5 | 81 | 29 | 75 | 55 | 6 | 66 | 64 | 81 | 32 | 84 | 3.25 | + 1.6 | 6 | 8,202 | e. | 36 | n. | 11 | 11 | 15 | 5 | 4.9 | 0.5 | | |
| Tampa. | 36 | 60 | 67 | 30.13 | 30.17 | + .01 | 60.0 | - 1.9 | 73 | 3 | 68 | 36 | 6 | 51 | 51 | 52 | 54 | 82 | 2.57 | + 0.5 | 9 | 4,974 | n.w. | 36 | s.w. | 4 | 10 | 11 | 10 | 5.8 | 0.5 | | |
| East Gulf States. | | | | | | | 55.2 | - 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atlanta. | 1,131 | 92 | 126 | 28.97 | 30.20 | - .00 | 43.6 | - 1.7 | 67 | 21 | 50 | 18 | 14 | 37 | 31 | 39 | 34 | 74 | 3.84 | - 0.6 | 11 | 7,298 | n.w. | 35 | n.w. | 31 | 11 | 7 | 13 | 5.7 | 0.4 | | |
| Pensacola. | 56 | 78 | 90 | 30.14 | 30.20 | + .04 | 51.6 | - 2.9 | 70 | 21 | 58 | 25 | 11 | 45 | 35 | 47 | 43 | 78 | 4.05 | + 0.2 | 12 | 7,301 | n.e. | 36 | w. | 4 | 12 | 6 | 13 | 5.5 | 0.5 | | |
| Mobile. | 57 | 88 | 96 | 30.14 | 30.21 | + .04 | 49.4 | - 3.0 | 70 | 21 | 57 | 25 | 11 | 42 | 32 | 45 | 43 | 84 | 3.11 | - 1.4 | 12 | 5,952 | n. | 32 | w. | 19 | 15 | | | | | | |

TABLE I.—Climatological data for Weather Bureau Stations, December, 1898—Continued.

| Stations. | Elevation of instruments | | Pressure, in inches. | | Temperature of the air, in degrees Fahrenheit. | | | | | | | | | | Precipitation, in inches. | | Wind. | | | | | | |
|--------------------------|----------------------------------|----------------------------|-------------------------------------|----------|--|------------------------|-------------------------|----------|------|------|----------|-------|------|---------------|---------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|-----------------|-----------------------|-------------------|--------------|
| | Barometer above sea level, feet. | Thermometers above ground. | Mean actual, 8 a.m. and 8 p.m. + 2. | | Mean reduced. | Departure from normal. | Mean max. and min. + 2. | Maximum. | | | Minimum. | | | Mean maximum. | Mean minimum. | Greatest daily range. | Mean wet thermometer. | Mean relative humidity, per cent. | Total movement, miles. | Miles per hour. | Prevailing direction. | Maximum velocity. | |
| | | | Mean | Reduced. | | | | Date. | Mean | Max. | Min. | Date. | Mean | Max. | Min. | | | | | | | | |
| Up. Miss. Val.—Con. | | | | | | | | | | | | | | | | | | | | | | | |
| Davenport..... | 599 | 71 | 79 | 29.43 | 30.12 | -.01 | 23.2 | — | 4.6 | 52 | 29 | 31 | — | 6 | 31 | 15 | 28 | 21 | 0.59 | — | 1.1 | 6 | 6,481 sw. 27 |
| Des Moines..... | 867 | 84 | 88 | 29.20 | 30.20 | +.05 | 20.6 | — | 6.2 | 57 | 33 | 32 | — | 10 | 31 | 12 | 35 | 19 | 0.57 | — | 0.9 | 5,720 nw. 28 | |
| Dubuque..... | 988 | 101 | 109 | 29.32 | 30.18 | +.02 | 19.2 | — | 6.7 | 46 | 33 | 32 | — | 10 | 31 | 11 | 37 | 17 | 0.33 | — | 1.5 | 5,609 nw. 26 | |
| Keokuk..... | 614 | 64 | 78 | 29.47 | 30.17 | +.04 | 26.0 | — | 3.8 | 57 | 33 | 32 | — | 4 | 31 | 19 | 31 | 22 | 1.38 | — | 0.6 | 6,997 nw. 29 | |
| Cairo..... | 359 | 87 | 93 | 29.77 | 30.18 | +.03 | 36.3 | — | 2.9 | 64 | 33 | 32 | — | 4 | 31 | 28 | 43 | 31 | 1.27 | — | 2.1 | 7,442 n. 40 | |
| Springfield, Ill..... | 644 | 82 | 92 | 29.42 | 30.14 | -.01 | 27.6 | — | 5.3 | 57 | 29 | 34 | — | 2 | 14 | 21 | 26 | 24 | 1.83 | — | 0.9 | 8,020 sw. 28 | |
| Hannibal..... | 534 | 75 | 107 | 29.42 | 30.14 | -.01 | 27.7 | — | 4.3 | 61 | 29 | 35 | — | 1 | 31 | 20 | 30 | 27 | 1.12 | — | 0.4 | 8,146 sw. 33 | |
| St. Louis..... | 567 | 111 | 210 | 29.54 | 30.18 | +.03 | 32.6 | — | 3.0 | 62 | 33 | 34 | — | 3 | 14 | 25 | 44 | 38 | 1.03 | — | 1.8 | 8,814 s. 33 | |
| <i>Missouri Valley.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Columbia..... | 4 | 84 | ..... | 28.2 | 28.2 | — | 10.1 | 66 | 32 | 38 | — | 12 | 14 | 18 | 46 | 46 | ..... | 1.52 | — | 0.5 | 8 | 7,298 sw. 29 | |
| Kansas City..... | 963 | 78 | 95 | 29.14 | 30.22 | +.04 | 27.4 | — | 4.5 | 59 | 33 | 35 | — | 2 | 9 | 20 | 35 | 35 | 2.0 | — | 1.44 | 7,221 nw. 30 | |
| Springfield, Mo..... | 1,324 | 100 | 103 | 28.73 | 30.20 | +.06 | 32.2 | — | 6.4 | 66 | 29 | 30 | — | 2 | 14 | 20 | 32 | 23 | 1.44 | — | 1.5 | 8,200 s. 37 | |
| Topeka..... | 81 | ..... | ..... | 27.5 | 27.5 | — | 7.3 | 60 | 35 | 35 | — | 1 | 14 | 20 | 32 | 32 | 1.48 | — | 0.5 | 6 | ..... |  |  |
| Lincoln..... | 1,199 | 74 | 84 | 28.85 | 30.22 | +.07 | 23.2 | — | 7.2 | 50 | 26 | 32 | — | 8 | 31 | 14 | 36 | 20 | 1.7 | — | 0.2 | 7,185 sw. 36 | |
| Omaha..... | 1,103 | 92 | 97 | 28.95 | 30.20 | +.03 | 22.0 | — | 4.7 | 48 | 30 | 30 | — | 10 | 14 | 34 | 30 | 12 | 0.31 | — | 0.7 | 5,475 nw. 29 | |
| Sioux City..... | 1,139 | 96 | 164 | 28.95 | 30.20 | +.02 | 20.4 | — | 7.4 | 52 | 28 | 29 | — | 14 | 31 | 12 | 36 | 16 | 0.06 | — | 1.1 | 8,338 nw. 44 | |
| Pierre..... | 1,572 | 50 | 62 | 28.43 | 30.20 | +.03 | 22.2 | — | 2.5 | 51 | 28 | 32 | — | 11 | 12 | 34 | 17 | 9 | 0.11 | — | 0.2 | 6,208 nw. 43 | |
| Huron..... | 1,306 | 56 | 67 | 28.69 | 30.20 | +.01 | 17.6 | — | 1.6 | 58 | 28 | 29 | — | 20 | 13 | 6 | 43 | 14 | 0.11 | — | 0.5 | 7,792 nw. 40 | |
| Yankton..... | 1,234 | 52 | 58 | 28.95 | 30.20 | +.02 | 23.0 | — | 0.5 | 62 | 28 | 33 | — | 13 | 31 | 13 | 42 | ..... | — | 0.7 | 3,250 w. 35 | | |
| <i>Northern Slope.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Havre..... | 2,494 | 46 | 47 | 27.40 | 30.15 | +.00 | 21.9 | — | 1.3 | 55 | 27 | 31 | — | 22 | 31 | 13 | 31 | 19 | 15 | 0.78 | — | 0.3 | 9,747 sw. 50 |
| Miles City..... | 2,372 | 41 | 49 | 27.56 | 30.19 | +.03 | 21.1 | — | 1.8 | 54 | 27 | 28 | — | 12 | 31 | 13 | 29 | 17 | 14 | 0.31 | — | 0.0 | 4,612 sw. 31 |
| Helena..... | 4,108 | 68 | 93 | 25.96 | 30.80 | +.19 | 20.7 | — | 4.6 | 54 | 27 | 28 | — | 12 | 31 | 13 | 28 | 18 | 12 | 0.38 | — | 0.6 | 5,642 sw. 36 |
| Rapid City..... | 3,251 | 46 | 50 | 26.66 | 30.18 | +.00 | 26.7 | — | 3.5 | 52 | 28 | 32 | — | 14 | 31 | 16 | 37 | 20 | 14 | 0.19 | — | 0.1 | 5,962 nw. 33 |
| Cheyenne..... | 6,084 | 58 | 60 | 24.01 | 30.36 | +.19 | 23.6 | — | 4.9 | 54 | 28 | 35 | — | 17 | 9 | 12 | 36 | 17 | 3 | 0.47 | — | 0.36 | 9,819 nw. 42 |
| Lander..... | 5,372 | 28 | 36 | 24.72 | 30.42 | +.24 | 15.5 | — | 7.9 | 56 | 27 | 31 | — | 25 | 31 | 0 | 42 | 10 | 4 | 0.71 | — | 0.2 | 2,501 se. 32 |
| North Platte..... | 2,826 | 43 | 52 | 26.00 | 30.27 | +.00 | 25.6 | — | 1.5 | 62 | 28 | 40 | — | 12 | 19 | 12 | 64 | 0.03 | — | 0.5 | 6,491 nw. 36 | | |
| <i>Middle Slope.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Denver..... | 5,290 | 79 | 151 | 24.77 | 30.36 | +.18 | 25.8 | — | 6.3 | 60 | 32 | 39 | — | 20 | 9 | 12 | 40 | 19 | 9 | 0.55 | — | 0.3 | 6,086 s. 38 |
| Pueblo..... | 4,682 | 74 | 81 | 25.37 | 30.30 | +.17 | 24.5 | — | 9.3 | 63 | 33 | 39 | — | 16 | 31 | 10 | 45 | 20 | 12 | 0.34 | — | 0.7 | 4,432 w. 40 |
| Concordia..... | 1,398 | 42 | 47 | 29.66 | 30.23 | +.08 | 25.7 | — | 7.3 | 57 | 34 | 34 | — | 1 | 31 | 17 | 27 | 22 | 19 | 0.83 | — | 0.2 | 4,557 s. 35 |
| Dodge..... | 2,504 | 44 | 52 | 27.52 | 30.27 | +.11 | 27.3 | — | 5.3 | 58 | 32 | 37 | — | 14 | 31 | 16 | 37 | 20 | 14 | 0.88 | — | 0.9 | 6,856 nw. 38 |
| Wichita..... | 1,351 | 78 | 85 | 28.73 | 30.24 | +.11 | 30.6 | — | 4.0 | 54 | 32 | 32 | — | 10 | 17 | 23 | 23 | 23 | 18 | 0.00 | — | 1.1 | 6,836 n. 33 |
| Oklahoma..... | 1,218 | 54 | 62 | 28.89 | 30.24 | +.10 | 35.1 | — | 7.3 | 65 | 32 | 39 | — | 8 | 10 | 23 | 25 | 33 | 26 | 0.76 | — | 1.5 | 5,555 n. 36 |
| <i>Southern Slope.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Abilene..... | 1,749 | 45 | 54 | 28.37 | 30.29 | +.11 | 38.7 | — | 8.8 | 78 | 29 | 49 | — | 1 | 10 | 29 | 39 | 32 | 25 | 0.65 | — | 0.5 | 7,364 sw. 44 |
| Amarillo..... | 3,691 | 54 | 61 | 26.34 | 30.28 | +.12 | 27.6 | — | 8.7 | 64 | 5 | 36 | — | 1 | 10 | 19 | 39 | 25 | 21 | 0.06 | — | 1.3 | 10,917 n. 48 |
| <i>Southern Plateau.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| El Paso..... | 3,767 | 10 | 110 | 26.30 | 30.25 | +.10 | 39.4 | — | 6.7 | 67 | 50 | 50 | — | 15 | 10 | 29 | 35 | 31 | 19 | 0.54 | — | 0.4 | 5,207 nw. 52 |
| Santa Fe..... | 6,998 | 47 | 50 | 23.26 | 30.27 | +.12 | 24.0 | — | 6.8 | 46 | 33 | 33 | — | 1 | 24 | 15 | 27 | 19 | 10 | 0.58 | — | 0.4 | 5,207 ne. 36 |
| Flagstaff..... | 6,885 | 12 | 25 | 23.40 | 30.34 | +.12 | 44.2 | — | 5.4 | 54 | 37 | 30 | — | 10 | 17 | 11 | 43 | 22 | 19 | 0.37 | — | 0.5 | 5,207 e. 36 |
| Phenix..... | 1,076 | 47 | 57 | 29.00 | 30.16 | +.04 | 48.8 | — | 3.8 | 73 | 1 | 61 | — | 38 | 31 | 37 | 40 | 28 | 51 | 0.70 | — | 0.6 | 4,064 e. 26 |
| Yuma..... | 139 | 16 | 50 | 29.98 | 30.13 | +.07 | 52.0 | — | 4.0 | 47 | 32 | 62 | — | 11 | 42 | 32 | 42 | 44 | 1.16 | — | 0.7 | 5,112 n. 36 | |
| Independence..... | 8,907 | 10 | 58 | 26.15 | 30.22 | +.10 | 39.7 | — | 0.4 | 68 | 28 | 51 | — | 19 | 31 | 28 | 39 | 30 | 12 | 0.20 | — | 1.8 | 6,156 nw. 60 |
| <i>Middle Plateau.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Carson City..... | 4,720 | 82 | 92 | 25.42 | 30.34 | +.19 | 30.8 | — | 3.9 | 57 | 32 | 38 | — | 0 | 11 | 16 | 36 | 23 | 17 | 0.65 | — | 0.5 | 3,508 ne. 47 |
| Winnebemeca..... | 4,340 | 59 | 70 | 25.85 | 30.40 | +.19 | 27.3 | — | 3.8 | 52 | 32 | 38 | — | 0 | 11 | 16 | 36 | 23 | 17 | 0.65 | — | 0.5 | 7,178 n. 52 |
| Salt Lake City..... | 4,344 | 83 | 90 | 25.85 | 30.46 | +.22 | 25.2 | — | 7.6 | 57 | 33 | 36 | — | 6 | 23 | 22 | 23 | 23 | 13 | 0.49 | — | 0.4 | 3,799 se. 48 |
| <i>Northern Plateau.</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Baker City..... | 3,470 | 49 | 55 | 26.66 | 30.43 | +.26 | 22.0 | — | 6.5 | 42 | 1 | 30 | — | 3 | 10 | 14 | 23 | 18 | 14 | 0.75 | — | 1.0 | 3,467 s. 18 |
| Boise..... | 2,736 | 61 | 68 | 27.46 | 30.45 | +.21 | 25.6 | — | 7.5 | 47 | 19 | 33 | — | 5 | 11 | 18 | 22 | 24 | 19 | 0.76 | — | 1.2 | 2,570 se. 23 |
| Idaho Falls..... | 4,742 | 10 | 56 | 25.44 | 30.54 | +.31 | 12.4 | — | 10.6 | 39 | 28 | 22 | — | 19 | 3 | 32 | 11 | 9 | 8 | 0.76 | — | 0.8 | 5,773 n. 42 |
| Spokane..... | 1,949 | 99 | 107 | 28.19 | 30.83 | +.13 | 24.5 | — | 6.8 | 50 | 32 | 32 | — | 12 | 19 | 20 | 24 | 21 | 8.94 | — | 1.6 | 3,543 sw. 27 | |
| Walla Walla..... | 1,018 | 65 | 73 | 29.25 | 30.40 | +.31 | 28.8 | — | 8.9 | 63 | 27 | 34 | — | 2 | 12 | 23 | 30 | 26 | 23 | 0.85 | — | 1.3 | 3,543 s. 30 |
| Fort Canby..... | 179 | 10 | 34 | 29.97 | 30.17 | +.21 | 43.4 | — | 0.4 | 58 | 7 | 47 | — | 32 | 30 | 40 | 13 | 41 | 36 | 0.77 | — | 1.1 | 12,300 e. 73 |
| Neah..... | 50 | 7 | 24 | 30.11 | 30.17 | +.24 | 41.8 | — | 1.2 | 57 | 27 | 45 | — | 28 | 30 | 38 | 12 | 40 | 38 | 0.66 | — | 1.0 | 2,762 e. 24 |
| Port Crescent..... | 256 | 15 | 20 | — | — | — | 39.4 | — | 0.0 | 58 | 27 | 45 | — | 27 | 12 | 34 | 23 | 23 | 4.41 | — | 2.5 | 12,300 e | |

NOTE.—The data at stations having no departures are not used in computing the district averages. Letters of the alphabet denote number of days missing from the record. *Two or more dates. †Received too late to be considered in departures, etc.

TABLE II.—*Meteorological record of voluntary and other cooperating observers, December, 1898.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|-------------------------------------|-------------------------------|-----------------|-------------------|--------------------------|-------------------------|-------------------|-------------------------------|----------|-------|--------------------------|-------------------------|--------------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| <i>Alabama.</i> | | | | | | | | | | | | | | | | | |
| Alco †..... | 75 | 21 | 49.3 | 5.98 | Ina. | Tucson †..... | 74 | 22 | 47.2 | 1.63 | 17.0 | Fallbrook * ¹ | 80 | 32 | 53.3 | 1.04 | Ina. |
| Ashville †..... | 68 | 13 | 41.9 | 2.12 | | Walnut Grove..... | 65 | 18 | 40.3 | 1.70 | 6.0 | Folsom City * ¹ | 66 | 29 | 45.2 | 2.47 | |
| Bermuda †..... | 78 | 22 | 49.8 | 5.25 | | White Hills..... | 62 | 1 | 28.6 | 1.37 | 5.0 | Fordyce Dam..... | ..... | ..... | ..... | 3.70 | 28.0 |
| Birmingham †..... | 70 | 15 | 45.0 | 2.17 | | Wilcox..... | 58 | -19 | 19.4 | 0.85 | 8.5 | Fort Bragg..... | ..... | ..... | ..... | 2.14 | |
| Bridgeport †..... | 70 | 23 | 49.2 | 5.33 | | Williams..... | 62 | 10 | 21.0 | | | Fort Romie..... | 78 | 22 | 47.3 | 0.51 | |
| Citronelle †..... | 70 | 18 | 43.2 | | 0.5 | Winslow..... | 58 | -19 | 19.4 | 0.85 | 8.5 | Fort Rose..... | 68 | 34 | 49.9 | 1.62 | |
| Clanton †..... | 70 | 18 | 43.2 | | | Yarnell..... | ..... | ..... | 1.60 | 16.0 | | Fort Tejon..... | ..... | ..... | ..... | 0.73 | |
| Decatur †..... | 69 | 14 | 41.6 | 2.04 | 1.0 | | | | | | | Georgetown..... | 64 | 22 | 44.5 | 3.35 | |
| Demopolis..... | ..... | ..... | ..... | 2.66 | | | | | | | | Glendora..... | ..... | ..... | ..... | 0.34 | |
| Elba..... | 73 ^c | 20 ^c | 47.4 ^c | 8.25 | | | | | | | | Goshen * ⁵ | 66 | 21 | 46.4 | 0.08 | |
| Eufaula †..... | 75 | 21 | 47.4 | 6.01 | | | | | | | | Grand Island * ⁵ | 70 | 24 | 46.1 | 0.99 | |
| Eufaula b..... | ..... | ..... | ..... | 5.67 | | | | | | | | Grass Valley..... | ..... | ..... | ..... | 2.78 | |
| Evergreen..... | ..... | 20 | ..... | 5.70 | | | | | | | | Greenville †..... | 56 | 3 | 52.5 | 1.54 | |
| Florence †..... | 70 | 12 | 40.6 | 2.09 | 1.0 | | | | | | | Healdsburg * ¹ | 78 | 22 | 45.4 | 1.14 | |
| Gadsden..... | 70 | 14 | 42.0 | 2.04 | | | | | | | | Hollister..... | 73 | 20 | 45.6 | 1.32 | |
| Goodwater..... | ..... | ..... | ..... | 2.20 | T. | | | | | | | Hueneme (near)..... | 82 | 32 | 56.7 | T. | |
| Greensboro †..... | 71 | 18 | 43.7 | 2.76 | 1.0 | | | | | | | Humboldt L. H. .... | ..... | ..... | ..... | 3.51 | |
| Hamilton..... | ..... | ..... | ..... | 1.51 | 1.0 | | | | | | | Hydesville..... | ..... | ..... | ..... | 2.27 | |
| Healing Springs..... | ..... | ..... | ..... | 5.20 | | | | | | | | Indio * ¹ | 78 | 28 | 51.0 | 1.00 | |
| Highland Home †..... | 72 | 22 | 49.2 | 5.23 | | | | | | | | Iowa Hill * ¹ | 66 | 27 | 45.7 | 2.84 | |
| Jasper..... | ..... | ..... | ..... | 2.87 | T. | | | | | | | Jackson..... | 62 | 26 | 43.0 | 2.70 | |
| Lock No. 4..... | 69 | 15 | 41.6 | 2.01 | T. | | | | | | | Jolon..... | 64 | 30 | 44.7 | 0.63 | |
| Madison Station †..... | ..... | ..... | ..... | 2.38 | 1.0 | | | | | | | Keene * ¹ | 63 | 23 | 43.4 | 3.19 | |
| Maplegrove..... | 69 | 13 | 40.4 | 1.73 | | | | | | | | Kennedy Gold Mine..... | ..... | ..... | ..... | 0.42 | |
| Marion †..... | 64 | ..... | ..... | 3.90 | T. | | | | | | | Kerville..... | 64 | 22 | 44.2 | 0.27 | |
| Mount Willing †..... | 75 | 19 | 49.2 | 4.70 | | | | | | | | King City * ¹ | 60 | 23 | 44.3 | 0.29 | |
| Newbern †..... | 70 | 18 | 45.0 | 2.96 | T. | | | | | | | Kingsburg * ⁵ | 66 | 28 | 45.8 | 1.40 | |
| Newton..... | 70 | 20 | 47.6 | 6.65 | | | | | | | | Lagrange * ⁵ | 55 | 8 | 33.4 | 3.86 | 18.5 |
| Oneonta..... | 70 | 10 | 41.8 | 2.62 | T. | | | | | | | Laporte * ¹..... | ..... | ..... | ..... | 0.23 | |
| Opelika †..... | 76 | 20 | 45.0 | 7.66 | 3.0 | | | | | | | Laz Fuentes Ranch..... | 62 | 18 | 41.5 | 0.15 | |
| Oxanna..... | 66 | 14 | 43.0 | 1.75 | 0.5 | | | | | | | Lick Observatory..... | 57 | 22 | 43.3 | 2.13 | T. |
| Pineapple..... | 72 | 20 | 46.4 | 3.85 | | | | | | | | Limekiln..... | 68 | 27 | 46.2 | ..... |  |
| Pushmataha †..... | 66 | 19 | 48.8 | 4.58 | | | | | | | | Lime Point L. H. .... | ..... | ..... | ..... | 2.11 | |
| Riverton †..... | 70 | 10 | 39.0 | 4.06 | 4.0 | | | | | | | Lodi..... | 63 | 21 | 43.2 | 1.93 | |
| Rockmill..... | 70 | 13 | 45.6 | 4.30 | | | | | | | | Los Alamos..... | ..... | ..... | ..... | 0.85 | |
| Scottsboro †..... | 68 | 15 | 39.6 | 4.43 | T. | | | | | | | Los Gatos b..... | 62 | 32 | 46.2 | 0.96 | |
| Selma †..... | 75 | 19 | 46.6 | 3.13 | T. | | | | | | | Malakoff Mine..... | 68 | 20 | 44.0 | 4.10 | |
| Sturdevant..... | ..... | ..... | ..... | 3.35 | 0.4 | | | | | | | Mount Nebo Tank * ¹ | 76 | 33 | 51.4 | T. | |
| Talladega..... | 71 | 14 | 43.4 | 1.60 | 0.5 | | | | | | | Manzana..... | 68 | 23 | 43.5 | 0.50 | |
| Tallassee..... | ..... | ..... | ..... | 3.93 | | | | | | | | Mare Island L. H. .... | ..... | ..... | ..... | 1.19 | |
| Thomasville..... | 74 | 19 | 46.2 | 3.39 | | | | | | | | Merced * ¹ | 67 | 26 | 44.8 | 0.42 | |
| Tuscaloosa †..... | 70 | 17 | 42.7 | 3.43 | | | | | | | | Mills College..... | ..... | ..... | ..... | 1.64 | |
| Union †..... | ..... | ..... | ..... | 4.40 | T. | | | | | | | Milo..... | ..... | ..... | ..... | 1.17 | |
| Union Springs †..... | 73 | 20 | 46.4 | 6.27 | | | | | | | | Milton (near) * ¹ | 64 | 27 | 44.3 | 2.35 | |
| Uniontown †..... | 72 | 21 | 47.6 | 3.72 | | | | | | | | Modesto * ¹ | 73 | 27 | 46.2 | 0.88 | |
| Valleyhead..... | 67 | 9 | 40.0 | | | | | | | | | Mohave * ¹ | 66 | 20 | 42.4 | 0.29 | |
| Warrior..... | 74 | 17 | 44.8 | 3.87 | 1.0 | | | | | | | Mokelumne Hill * ²..... | ..... | ..... | ..... | 2.60 | |
| Wetumpka..... | 74 | 17 | 44.8 | 3.87 | 1.0 | | | | | | | Monterey * ¹ | 67 | 29 | 51.6 | 0.98 | |
| Wilsonville †..... | ..... | ..... | ..... | 1.65 | T. | | | | | | | Mountain View..... | ..... | ..... | ..... | 1.02 | |
| <i>Arizona.</i> | | | | | | | | | | | | | | | | | |
| Arizona Canal Co. Dam..... | 78 | 26 | 51.5 | 2.29 | 4.0 | | | | | | | | | | | | 10.0 |
| Benson * ¹ | 61 | 33 | 44.7 | 0.85 | | | | | | | | | | | | | |
| Bisbee †..... | 67 | 24 | 42.0 | 2.90 | 1.0 | | | | | | | | | | | | |
| Buckeye †..... | 77 | 21 | 50.2 | 1.80 | | | | | | | | | | | | | |
| Casa Grande * ¹ | 80 | 35 | 53.3 | 1.42 | | | | | | | | | | | | | |
| Champie Camp..... | 84 | 28 | 49.2 | 2.10 | 10.0 | | | | | | | | | | | | |
| Congress..... | 70 | 28 | 48.4 | 1.35 | | | | | | | | | | | | | |
| Dragoon..... | ..... | ..... | ..... | 1.40 | | | | | | | | | | | | | |
| Dragoon Summit * ⁵ | 65 | 13 | 37.1 | 2.28 | 1.8 | | | | | | | | | | | | |
| Dudleyville..... | 71 | 21 | 43.3 | 2.89 | 8.0 | | | | | | | | | | | | |
| Empire Ranch..... | ..... | ..... | ..... | 0.74 | | | | | | | | | | | | | |
| Fort Apache..... | 58 | 7 | 31.7 | 0.80 | 6.8 | | | | | | | | | | | | |
| Fort Defiance..... | 48 | -16 | 19.1 | 1.40 | 14.0 | | | | | | | | | | | | |
| Fort Grant †..... | 79 | 16 | 45.0 | 1.30 | | | | | | | | | | | | | |
| Fort Huachua †..... | 67 | 22 | 41.4 | 0.58 | | | | | | | | | | | | | |
| Fort Mohave..... | 78 | 22 | 47.8 | 0.50 | T. | | | | | | | | | | | | |
| Gilabed a * ¹ | 70 | 32 | 49.1 | 1.10 | | | | | | | | | | | | | |
| Holbrook †..... | 54 | -21 | 18.6 | 1.15 | 11.0 | | | | | | | | | | | | |
| Hot Springs..... | 71 | 29 | 49.0 | 2.75 | | | | | | | | | | | | | |
| Jerome..... | 59 | 16 | 38.2 | 2.60 | 26.0 | | | | | | | | | | | | |
| Lochiel * ¹ | 65 | 24 | 41.5 | 1.56 | | | | | | | | | | | | | |
| Maricopa * ¹ | 76 | 31 | 51.0 | 2.12 | | | | | | | | | | | | | |
| Mesa †..... | 69 | 28 | 47.0 | 2.39 | | | | | | | | | | | | | |
| Mount Huachuca..... | 62 | 19 | 39.9 | 3.43 | | | | | | | | | | | | | |
| Music Mountain..... | 67 | 28 | 38.6 | 0.16 | 2.2 | | | | | | | | | | | | |
| Natural Bridge..... | ..... | ..... | ..... | 3.00 | 30.0 | | | | | | | | | | | | |
| Oracle..... | 68 | 21 | 41.6 | 3.12 | | | | | | | | | | | | | |
| Oro..... | ..... | ..... | ..... | 2.13 | | | | | | | | | | | | | |
| Oro Blanco..... | 70 | 27 | 47.8 | 1.75 | | | | | | | | | | | | | |
| Pantano * ¹ | 70 | 30 | 46.2 | 1.32 | 0.5 | | | | | | | | | | | | |
| Parker..... | 81 | 19 | 47.8 | 1.37 | | | | | | | | | | | | | |
| Peoria..... | 68 | 39 | 47.8 | 2.75 | 3.0 | | | | | | | | | | | | |
| Phoenix..... | 69 | 28 | 45.9 | 1.98 | T. | | | | | | | | | | | | |
| Pima..... | 72 | 18 | 41.4 | 1.66 | 7.0 | | | | | | | | | | | | |
| Pinal Ranch..... | ..... | ..... | ..... | 3.13 | 21.0 | | | | | | | | | | | | |
| Prescott..... | 62 | -6 | 34.4 | 1.25 | 14.5 | | | | | | | | | | | | |
| San Carlos †..... | 78 | 1 | 38.3 | 0.80 | 8.0 | | | | | | | | | | | | |
| San Simon * ¹ | 68 | 15 | 37.1 | 0.53 | 2.0 | | | | | | | | | | | | |
| Signal †..... | 71 | 22 | 45.0 | 1.38 | | | | | | | | | | | | | |
| Snowflake..... | 55 | -20 | 21.4 | 1.08 | 14.5 | | | | | | | | | | | | |
| Strawberry..... | 56 | -7 | 30.4 | | | | | | | | | | | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|--------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|--------------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| California—Cont'd. | ° | ° | ° | Ins. | Ins. | Colorado—Cont'd. | ° | ° | ° | Ins. | Ins. | Florida—Cont'd. | ° | ° | ° | Ins. | Ins. |
| San Luis L. H. | 67 | 33 | 47.6 | 1.35 | 0.83 | Rockyford | 64 | -17 | 24.2 | 0.88 | 8.0 | Tarpon Springs † | 82 | 34 | 59.1 | 5.15 | |
| San Mateo* ¹ | 67 | 18 | 43.4 | 0.36 | | Ruby | 38 | -26 | 10.5 | 3.58 | 53.0 | Wausau | 76 | 25 | 50.8 | 8.70 | |
| San Miguel* ¹ | 65 | 18 | 43.4 | 0.36 | | Saguache† | 55 | -13 | 20.8 | 0.40 | 6.0 | Georgia. | | | | | |
| Santa Barbara ^a | 60 | 38 | 55.6 | 0.36 | | Salida | 55 | -13 | 20.8 | 0.60 | 9.5 | Adairsville | 67 | 10 | 40.5 | 1.87 | T. |
| Santa Barbara L. H. | | | | | | San Luis† | 40 | -26 | 10.0 | 0.36 | 5.3 | Albany† | 74 | 24 | 48.6 | 5.33 | |
| Santa Clara ^a | | | | | | Santa Clara* ¹ | 48 | -15 | 23.0 | 4.18 | 53.0 | Allentown† | 76 | 22 | 45.1 | 2.99 | |
| Santa Cruz† | 76 | 26 | 48.2 | 2.24 | | Seguro | 50 | -19 | 17.6 | 1.58 | 32.5 | Americus† | 75* | 20* | 47.2* | 4.80 | |
| Santa Cruz L. H. | | | | | | Seibert† | | | | 0.27 | 3.5 | Athens ^b | 67 | 25 | 43.8 | 3.81 | |
| Santa Maria | 80 | 30 | 54.8 | 0.64 | | Smoky Hill Mine | 60 | -21 | 24.5 | 1.18 | 16.0 | Bellville | | | | | |
| Santa Monica* ¹ | 80 | 36 | 55.8 | 0.15 | | Springfield | | | | 0.70 | 9.0 | Blakely† | 73 | 25 | 50.0 | 5.64 | |
| Santa Paula | 75 | 28 | 52.2 | 0.26 | | Stamford* ¹ | 56 | -20 | 14.7 | 1.59 | 27.0 | Canton† | 76 | 14 | 45.0 | 1.41 | |
| Santa Rosa* ¹ | 67 | 23 | 46.8 | 1.20 | | Steamboat Springs | 40 | -23 | 13.9 | 1.47 | 22.0 | Cartersville | 70* | 12* | 41.4* | 1.24 | |
| Saticoy | | | | 0.16 | | Strickler Tunnel | | | | 0.84 | 14.5 | Cedartown | 70* | 12* | 41.4* | 1.24 | |
| Shasta | 67 | 23 | 46.8 | 2.15 | | Trinidad | 45 | -2 | 21.9 | 1.60 | 26.0 | Clayton† | 64 | 10 | 40.0 | 4.39 | 0.5 |
| Sierra Madre | 74 | 35 | 54.0 | 1.63 | | T. S. Ranch† | | | | 0.61 | 6.4 | Columbus | 78 | 23 | 51.8 | 6.40 | |
| Sonoma | | | | 0.99 | | Vilas | 41 | -31 | 2.8 | 0.97 | 3.0 | Covington | 68 | 13 | 40.8 | 4.85 | 1.0 |
| S. E. Farrallone L. H. | | | | 0.92 | | Wagon Wheel | | | | 0.35 | 7.0 | Crescent | | | | | |
| Stanford University | 64 | 26 | 44.7 | 0.60 | | Wallet | | | | 0.73 | 8.0 | Dahlonega† | 67 | 10 | 41.8 | 3.69 | T. |
| Stockton ^a | 64 | 23 | 42.0 | 1.50 | | Wray† | 66 | -19 | 25.0 | 0.29 | 4.0 | Diamond | 63 | 8 | 58.3 | 3.55 | |
| Summerdale† | 59 | 16 | 37.8 | 2.64 | 1.0 | Yuma | | | | 1.10 | 12.0 | Dublin | | | | | |
| Susanaville† | 50 | 10 | 29.0 | 0.65 | 2.0 | Connecticut. | | | | | | Elberton† | 70 | 17 | 44.6 | 2.82 | |
| Sutter Creek* ⁵ | 58 | 20 | 38.2 | 2.26 | | Bridgeport | 55 | -6 | 28.8 | 3.03 | 6.1 | Fitzgerald† | 75 | 23 | 49.8 | 4.78 | |
| Tehama* ¹ | 67 | 29 | 46.6 | 1.76 | | Canton† | 52 | -10 | 26.1 | 3.78 | 13.5 | Fleming† | 74 | 26 | 50.2 | 3.40 | |
| Templeton* ¹ | 60 | 18 | 41.6 | 0.50 | | Colchester | 55 | 0 | 30.1 | 2.63 | 4.0 | Fort Gaines | | | | | |
| Thermalito | 74 | 26 | 45.5 | 1.07 | | Falls Village | | | | 2.42 | 10.2 | Franklin | 68 | 18 | 46.6 | 4.12 | |
| Trinidad L. H. | | | | 4.90 | | Greenfield Hill | | | | 3.01 | 2.8 | Gainesville | 66 | 14 | 43.1 | 3.97 | T. |
| Truckee* ¹ | 56 | -6 | 21.5 | 1.50 | 15.0 | Hartford a | 48 | 2 | 28.9 | 2.04 | 4.0 | Gillsville† | | | | | |
| Tulare b | | | | 0.23 | | Hartford b | | | | 4.03 | 7.0 | Greenbush | 66* | 14* | 40.2* | 2.78 | T. |
| Tulare c | 72 | 18 | 45.2 | 0.19 | | Hawleyville | | -3 | | 2.02 | 6.5 | Griffin | 67 | 15 | 44.2 | 4.40 | |
| Turlock | | | | 1.20 | | Lake Konomoc | | | | 2.68 | | Harrison | 72 | 26 | 47.4 | 2.06 | 0.5 |
| Ukiah | 62 | 20 | 42.0 | 2.41 | | Middletown* ¹ | 51 | -2 | 31.9 | 2.21 | 1.2 | Hawkinsville | | | | | |
| Upperlake | 69 | 21 | 44.2 | 1.34 | | New London† | 45 | -2 | 30.2 | 1.88 | 1.0 | Hephzibah* ⁶ | 74 | 30 | 49.3 | 2.58 | |
| Upper Mattole* ¹ | 67 | 26 | 46.1 | 5.08 | 0.5 | North Grosvenor Dale | 54 | -13 | 30.9 | 2.99 | | Jesup | 77 | 23 | 50.8 | 3.69 | T. |
| Vacaville a* ¹ | 72 | 26 | 46.1 | 1.30 | | Norwalk | 54 | -8 | 28.6 | 3.26 | 5.0 | Lagrange† | 71 | 16 | 46.0 | 4.53 | |
| Ventura† | 83 | 30 | 53.0 | 0.16 | | Pomfret | 57 | -1 | 29.2 | 2.21 | 6.7 | Louisville | 75 | 25 | 48.0 | 1.87 | |
| Visalia* ¹ | 83 | 21 | 43.1 | 0.07 | | Southington | 49 | -8 | 28.6 | 1.60 | 2.0 | Marietta | 69 | 14 | 42.7 | 1.78 | T. |
| Volcano Springs* ¹ | 78 | 30 | 46.2 | 0.47 | | South Manchester | | | | 4.25 | 10.0 | Marshallville† | 75 | 23 | 49.1 | 4.19 | |
| Walnut Creek | 64 | 22 | 46.0 | 1.52 | | Storrs | 53 | -4 | 27.3 | 1.96 | 4.8 | Mauzy | 90 | 26 | 51.2 | 6.14 | |
| West Palmdale | | | | 0.87 | | Voluntown† | 54 | -3 | 30.1 | 2.03 | 2.0 | Mullen | 69 | 26 | 48.2 | 3.06 | |
| Westpoint | | | | 2.58 | | Wallingford | | | | 2.16 | 1.0 | Morgan | 75 | 13 | 47.1 | 6.52 | |
| Wheatland | 67 | 24 | 42.2 | 1.78 | | Waterbury | 52 | -5 | 27.5 | 3.86 | 12.0 | Mount Vernon | 72 | 29 | 50.6 | 5.00 | |
| Williams* ¹ | 70 | 26 | 45.6 | 0.94 | | West Cornwall† | 47 | -5 | 27.2 | 2.17 | 13.5 | Newnan | | | | | |
| Wilmington* ¹ | 78 | 40 | 54.7 | 0.50 | | West Simsbury | | | | 3.42 | 9.0 | Pelham | | | | | |
| Wire Bridge* ⁵ | 63 | 23 | 43.7 | 2.68 | | Winsted | 50 | -3 | 25.8 | | | Piscola | 74 | 28 | 51.5 | 5.80 | |
| Yerba Buena L. H. | | | | 1.45 | | Delaware. | | | | | | Point Peter | 65 | 14 | 41.7 | 3.62 | |
| Yreka† | 52 | 14 | 33.6 | 1.04 | 1.5 | Dover | 68 | 9 | 35.7 | 2.98 | | Poulan† | 77 | 22 | 49.8 | 4.15 | |
| Colorado. | | | | | | Milford | 65 | 17 | 39.4 | 3.19 | | Putnam | | | | | |
| Altman | 39 | -13 | 13.8 | | | Millsboro | 65 | 6 | 37.0 | 3.11 | 1.0 | Quitman† | 75 | 25 | 50.2 | 4.72 | |
| Antlers | 45 | -5 | 19.4 | 0.19 | 2.0 | Newark | 58 | 12 | 33.4 | 4.17 | 0.2 | Ramsey | 69 | 10 | 42.9 | 1.46 | |
| Arkins | | | | 0.50 | | Seaford | 66 | 13 | 37.7 | 3.97 | 2.2 | Resaca | | | | | |
| Boulder | 60 | -9 | 29.3 | 1.80 | | District of Columbia. | | | | | | Reynolds | | | | | |
| Boxelder | | | | 0.17 | | Distributing Reservoir* ⁵ | 65 | 10 | 37.9 | 2.76 | | Rome† | 70 | 17 | 41.8 | 1.80 | T. |
| Breckenridge† | 34 | -29 | 7.4 | 1.34 | 25.9 | Receiving Reservoir* ⁵ | 64 | 11 | 35.6 | 2.86 | | Talbotton† | 67 | 20 | 46.2 | 4.23 | T. |
| Canyon† | 64 | -14 | 31.2 | 1.05 | 13.8 | West Washington | 72 | 8 | 34.4 | 3.86 | 1.5 | Tallapoosa | 68 | 8 | 41.2 | 1.91 | 0.2 |
| Castlerock | 60 | -22 | 19.8 | 0.99 | 15.0 | Florida. | | | | | | Thomasville† | 76 | 26 | 50.0 | 5.05 | |
| Cedaredge | 47 | -4 | 22.1 | 0.24 | 2.8 | De Funiki Springs | 80 | 25 | 55.8 | 3.72 | | Toccoa† | 66 | 15 | 42.0 | 2.79 | |
| Cheyenne Wells | 68 | -17 | 26.1 | 0.48 | 2.7 | Boca Raton | 83 | 31 | 58.4 | 3.04 | | Washington† | | | | | |
| Colibrano | | | | 0.55 | 8.0 | Brooksville† | 78 | 32 | 57.6 | 2.96 | | Idaho. | | | | | |
| Colorado Springs† | 63 | -17 | 25.0 | 0.43 | 8.0 | Clermont | 82 | 34 | 59.2 | 3.75 | | American Falls | 42 | -12 | 17.0 | 0.00 | |
| Cope | 63 | -17 | 25.8 | 0.39 | 6.0 | Crawfordville | 79 | 21 | 52.3 | 5.54 | | Atlanta | 42 | -9 | 20.1 | 1.48 | 14.0 |
| Delta | 58 | -9 | 20.6 | 0.08 | | De Funiki Springs | 76 | 22 | 49.8 | 4.52 | | Blackfoot† | 42 | -14 | 15.0 | 0.05 | 0.5 |
| Dumont† | | | | 0.82 | 13.0 | Earnestville | 81 | 33 | 58.6 | 4.64 | | Boise Barracks | 46 | 2 | 25.3 | 0.98 | 4.8 |
| Durango | 47 | -12 | 19.4 | 3.22 | 37.9 | Esterio* ¹ | 80 | 38 | 63.5 | | | Burnside† | 41 | -5 | 16.2 | 0.30 | 3.0 |
| Fairview | 51 | -25 | 19.6 | 0.56 | 9.0 | Eustis† | 84 | 32 | 59.3 | 2.38 | | Downey | 40 | -22 | 13.3 | 1.80 | 18.0 |
| Fort Collins† | 55 | -23 | 23.6 | 0.17 | 3.5 | Federal Polutt† | 79 | 29 | 55.1 | 3.15 | | Fort Sherman† | 47 | 5 | 25.9 | 2.06 | 12.2 |
| Fort Morgan | 51 | -17 | 21.2 | 0.11 | 1.5 | Fort Meade | 86 | 26 | 59.9 | 1.97 | | Gimlet | 44 | -9 | 18.2 | 0.69 | 6.9 |
| Fox | | | | 0.25 | 4.0 | Gainesville | 78 | 30 | 53.4 | 3.31 | | Idaho City | 50 | -13 | 20.2 | 1.56 | 9.8 |
| Garnett | 40 | -40 | 1.0 | 0.49 | 8.0 | Grasmere† | 78 | 30 | 57.4 | 3.73 | | Lake | 28 | -12 | 8.2 | 1.50 | 15.0 |
| Georgetown | 52 | -13 | 22.1 | | | Haywood | | | | 9.40 | | Lakeview | 53 | 10 | 28.4 | 2.03 | 7.5 |
| Geneyriet | 68 | -14 | 25.6 | 0.70 | 10.5 | Homeland | 81 | 27 | 61.1 | | | Lewiston | 54 | 5 | 30.0 | 0.45 | 0.0 |
| Grand Junction† | 48 | -11 | 23.6 | 0.31 | 4.8 | Huntington | 79 | 32 | 55.7 | 2.53 | | Lost River | 43 | -17 | 14.5 | 0.08 | 0.8 |
| Greeley | 55 | -23 | 21.3 | 0.37 | 5.0 | Jasper | 75 | 28 | 52.8 | 5.52 | | Minidoka | 46 | -15 | 18.9 | | |
| Gunnison | 43 | -34 | 1.2 | 0.30 | 4.8 | Kissimmee | 80 | 32 | 60.8 | 3.02 | | Moscow | 48 | 2 | 25.6 | 1.71 | 9.1 |
| Hamps | 58 | -19 | 21.4 | 0.72 | 9.5 | Lake Butler | 80 | 27 | 55.4 | 4.98 | | Murray† | 47 | -6 | 21.8 | 3.57 | 29.0 |
| Hoehne | 61 | -18 | 21.2 | 1.35 | 17.5 | Lake City† | 78 | 27 | 54.6 | 5.52 | | Oakley | 49 | 0 | 34.2 | 0.20 | 2.0 |
| Holly | | | | 1.36 | 4.0 | Lakemont | 87 | 32 | 63.0 | 2.04 | | Ola | 53 | -12 | 20.5 | 1.56 | 12.8 |
| Holyoke (near) | 66 | -20 | 24.6 | 0.18 | 3.0 | Lemon City | 82 | 40 | 67.4 | 1.50 | | Paris | 43 | -19 | 12.8 | 0.81 | 13.2 |
| Hugo | | | | 0.22 | 2.2 | Maccleeny† | 81 | 28 | 54.0 | 5.23 | | Payette | 45 | -5 | 24.7 | 0.96 | 2.5 |
| Husted† | 60 | -19 | 24.3 | 0.50 | 6.5 | Manatee | 81 | 32 | 59.6 | 1.89 | | Pollock† | 50 | -5 | 29.8 | 0.28 | 0.0 |
| Lake Moraine | 48 | -15 | 16.6 | 1.31 | 18.5 | Merritts Island | 78 | 40 | 61.3 | 3.46 | | St. Maries | 47 | -2 | 30.2 | 1.89 | 14.0 |
| Lamar† | 62 | -12 | 26.4 | 1.30 | 6.0 | Myers† | 81 | 37 | 63.8 | 3.12 | | Soldier† | 45 | -29 | 12.1 | 0.35 | 3.5 |
| Laporte | | | | 0.40 | 6.0 | New Smyrna | 80 | 30 | 57.8 | 3.67 | | Swan Valley† | 44 | -29 | 10.5 | 0.77 | 7.7 |
| Las Animas† | 57 | -12 | 25.6 | 0.39 | 5.0 | Oakhill† | 77 | 39 | 61.9 | | | Warren | 51 | -20 | 22.1 | 1.44 | |
| Leadville (near)* ¹ | 38 | -10 | 14.8 | 0.96 | 14.2 | Ocala† | 90 | 26 | 57.5 | 4.19 | | Weston | 45 | -14 | 15.7 | 0.40 | 2.0 |
| Leroy† | 63 | -13 | 26.8 | 0.27 | 4.0 | Orange City | 81 | 28 | 58.2 | 2.54 | | Yellow Jacket | | | | | |
| Longs Peak | 51 | -24 | 19.4 | 0 | | | | | | | | | | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | | | | |
|---------------------------|-------------------------------|----------|-------------------|--------------------------|-------------------------|--------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------------------------|-------------------------------|----------|-------------------|--------------------------|-------------------------|--|--|--|--|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | | | |
| <i>Illinois—Cont'd.</i> | ° | ° | ° | <i>Ins.</i> | <i>Ins.</i> | <i>Indiana—Cont'd.</i> | ° | ° | ° | <i>Ins.</i> | <i>Ins.</i> | <i>Iowa—Cont'd.</i> | ° | ° | ° | <i>Ins.</i> | <i>Ins.</i> | | | | |
| Carlinville | 60 | -7 | 29.4 | 2.16 | 5.6 | Franklin* ¹ | 60 | -12 | 29.3 | 2.22 | 9.9 | Hedrick* ¹ | 42 ^f | ° | 18.73 | 0.05 | 0.5 | | | | |
| Carlisle | 54 | -4 | 26.4 | 1.80 | 2.0 | Greensburg | 58 | -8 | 27.6 | 2.95 | 11.7 | Hooperville† | 43 | -10 | 19.6 | 0.65 | ... | | | | |
| Carrollton | 54 | -10 | 28.8 | 1.79 | 4.9 | Hammont | 46 | -3 | 23.3 | 1.38 | 3.3 | Humboldt† | 39 | -22 | 16.6 | 0.02 | 0.2 | | | | |
| Charleston | 56 | -8 | 19.0 | 0.89 | 4.0 | Hector | 45 | -5 | 26.6 | 1.90 | 8.5 | Independence† | 40 | -16 | 15.8 | 0.42 | 2.8 | | | | |
| Chemung | 48 | -8 | 22.3 | 2.23 | 5.7 | Huntington | 55 | 0 | 28.0 | 2.11 | 5.5 | Indianola† | 43 | -12 | 20.5 | 1.01 | 2.5 | | | | |
| Chester | 50 | -3 | 31.4 | 1.64 | 2.5 | Jeffersontown† | 60 | -8 | 33.4 | 2.69 | 1.1 | Iowa City a | 48 | -10 | 20.8 | 0.83 | 0.3 | | | | |
| Cisne† | 54 | -5 | 25.0 | 1.53 | 7.0 | Knightstown† | 58 | -17 | 28.0 | 3.57 | 17.0 | Iowa Falls† | 37 | -18 | 14.7 | 0.40 | 4.0 | | | | |
| Coatsburg | 62 | -9 | 33.2 | 1.69 | 3.2 | Kokomo† | 56 | -2 | 29.2 | 1.83 | 4.2 | Keosauqua | 56 | -5 | 24.6 | 1.09 | 4.0 | | | | |
| Cobden | 49 | -10 | 22.6 | 0.50 | 1.8 | Lafayette† | 54 | -5 | 27.8 | 1.83 | 2.5 | Knoxville | 49 | -10 | 21.3 | 0.38 | 2.0 | | | | |
| Cordova | 54 | -2 | 28.4 | 1.86 | 2.5 | Laporte† | 47 | -3 | 24.4 | 2.29 | ... | Lamoni† | 38 | -8 | 18.6 | 1.38 | 3.0 | | | | |
| Danville | 54 | -1 | 28.2 | 1.68 | 5.0 | Logansport b† | 49 | 0 | 27.0 | 1.96 | 4.1 | Lansing | 44 | -15 | 17.6 | 0.27 | 0.8 | | | | |
| Decatur† | 57 | -1 | 28.2 | 1.68 | 5.0 | Madison | 60 | -1 | 32.0 | 3.01 | 4.2 | Larchwood | 43 | -22 | 15.6 | 0.05 | 0.5 | | | | |
| Dixon† | 52 | -6 | 22.0 | 0.78 | 2.5 | Marengo† | 66 | -11 | 31.2 | 3.00 | 8.7 | Larrabee† | 43 | -22 | 15.6 | 0.24 | 2.4 | | | | |
| Dwight† | 46 | -8 | 23.8 | 1.26 | 4.0 | Marion† | 56 | -4 | 27.3 | 2.43 | 9.8 | LeClaire | 43 | -15 | 17.8 | 0.29 | 1.5 | | | | |
| Emingham† | 59 | -7 | 30.4 | 1.84 | 3.5 | Markle | 54 | -1 | 28.2 | 2.50 | 9.0 | Lemars | 43 | -15 | 17.8 | 0.20 | 2.0 | | | | |
| Elgin | 48 | 5 | 21.6 | 1.25 | 3.3 | Mauzy† | 57 | -12 | 27.7 | 3.36 | 16.0 | Lenox | 42 | -15 | 19.3 | 0.84 | 1.2 | | | | |
| Equality | 64 | 3 | 35.0 | 1.83 | 2.5 | Mount Vernon† | 64 | -2 | 32.4 | 1.31 | 2.5 | Logan† | 39 | -14 | 19.4 | 0.70 | 7.0 | | | | |
| <i>Flora</i> | 60 | -5 | 31.2 | 1.52 | 1.6 | Northfield† | 56 | -9 | 29.8 | 1.80 | 3.0 | Maquoketa | 52 | -10 | 21.6 | 0.26 | 2.5 | | | | |
| Fort Sheridan | 44 | -5 | 23.4 | 0.91 | 1.9 | Paoli | 59 | -4 | 30.8 | 2.62 | 12.0 | Mason City | 45 | -25 | 13.6 | T. | T. | | | | |
| Friendgrove† | 54 | -8 | 23.0 | 0.61 | 3.1 | Peru | 60 | -2 | 30.0 | 1.58 | 0.7 | Monticello | 45 | -11 | 18.4 | ... | ... | | | | |
| Galva† | 46 | -5 | 25.8 | 1.79 | 8.0 | Richmond | 57 | -24 | 27.2 | 4.24 | 7.0 | Moar | 58 | -5 | 24.6 | 0.70 | ... | | | | |
| Glenwood* ¹ | 60 | 3 | 33.0 | 1.34 | 3.0 | Rockville† | 55 | -7 | 28.6 | 1.32 | 3.0 | Mountayn | 44 | -10 | 19.6 | 1.01 | 3.0 | | | | |
| Grafton† | 54 | -8 | 23.0 | 0.61 | 3.1 | Scottsburg | 60 | -6 | 31.9 | 3.10 | 8.0 | Mount Pleasant | 56 | -7 | 26.5 | 0.37 | ... | | | | |
| Grayville | 60* | 3 | 33.0 | 1.60 | 3.0 | Seymour | 58 | -4 | 29.8 | 3.27 | 10.0 | Mount Vernon a ¹ | 46 | -13 | 18.8 | ... | ... | | | | |
| Greenville† | 57 | -6 | 29.4 | 1.47 | 2.1 | Shelbyville | 58 | -8 | 28.8 | 2.23 | 12.2 | Mount Vernon b | 44 | -10 | 18.6 | 0.30 | 1.3 | | | | |
| Griggsville† | 59 | -1 | 27.6 | 0.97 | ... | South Bend† | 54 | -3 | 26.6 | 2.25 | 10.5 | Neola | 43 | -8 | 18.8 | ... | ... | | | | |
| Halliday* ⁶ | 60 | -4 | 32.4 | 1.52 | 1.5 | Syracuse† | 54 | -13 | 29.5 | 2.60 | 8.8 | New Hampton | 39 | -20 | 14.4 | 0.12 | 1.0 | | | | |
| Havana† | 58 | 1 | 30.0 | 1.45 | 2.5 | Terre Haute† | 57 | 0 | 30.4 | 1.42 | 2.9 | Newton† | 42 | -14 | 18.8 | 0.58 | 2.7 | | | | |
| Henry | 51 | -8 | 25.4 | 1.32 | 2.0 | Topeka† | 49 | -7 | 24.1 | 0.28 | 2.8 | North McGregor | 42 | -21 | 18.0 | 0.81 | 1.5 | | | | |
| Hillsboro† | 58 | -7 | 28.9 | 2.00 | 3.0 | Valparaiso† | 44 | -3 | 21.5 | 0.60 | 1.0 | Northwood ⁴ | 38 | -20 | 16.0 | ... | ... | | | | |
| Joliet† | 46 | 0 | 24.6 | 2.15 | 8.4 | Vevay | 60 | 0 | 33.4 | 2.85 | 6.0 | Odebolt | 38 | -17 | 17.4 | 0.36 | 3.0 | | | | |
| Kankakee a | 45 | -1 | 28.1 | 1.17 | 4.0 | Vincennes | 61 | 1 | 32.3 | 1.27 | 3.0 | Ogden | 39 | -17 | 16.8 | 0.83 | 1.5 | | | | |
| Kishwaukee | 58 | -8 | 30.4 | 0.84 | 4.2 | Washington† | 61 | 0 | 32.8 | 1.90 | 2.5 | Olin | 45 | -10 | 19.2 | 0.16 | 1.5 | | | | |
| Knoxville | 55 | -8 | 23.0 | 0.83 | 1.6 | Winamac ^b | 53 | -7 | 27.0 | 0.82 | T. | Oscceola | 46 | -10 | 20.0 | 0.90 | 3.0 | | | | |
| Lagrange† | 46 | -1 | 24.0 | 1.56 | 3.2 | Worthington† | 58 | -13 | 29.5 | 2.60 | 5.9 | Oskaloosa† | 48 | -9 | 20.8 | 0.55 | ... | | | | |
| Laharpe | 56 | -5 | 25.9 | 0.42 | 5.5 | <i>Indian Territory.</i> | | | | | | | | | | | | | | | |
| Lanark† | 47 | -9 | 19.4 | 0.34 | 2.5 | Afton | 43 | -11 | 19.4 | 0.69 | 2.0 | Rock Rapids | 40 | -22 | 12.8 | ... | ... | | | | |
| Lexington | 50 | -1 | 24.9 | 1.18 | 6.0 | Albia | 56 | -1 | 35.0 | 3.5 | Rockwell City | 42 | -20 | 16.6 | 0.15 | 3.0 | | | | | |
| Loam† | 50 | -1 | 24.0 | 1.14 | 2.5 | Algona* ¹ | 36 | -23 | 14.5 | 0.37 | 3.8 | Ruthven | 39 | -25 | 14.0 | 0.40 | 4.0 | | | | |
| McLeansboro† | 61 | -3 | 32.0 | 1.69 | 2.0 | Alta a† | 48 | -18 | 15.6 | 0.35 | 3.7 | Sac City† | 39 | -19 | 16.2 | 0.40 | 4.0 | | | | |
| Martinsville | 58 | -5 | 30.1 | 0.85 | 4.5 | Ames b ¹ | 37* | -15 | 18.4 | 0.30 | 1.1 | Sibley | 42 | -21 | 14.0 ^c | 0.15 | 1.5 | | | | |
| Martinton† | 52 | -4 | 25.2 | 1.80 | 2.0 | Ames (near) | 43 | -12 | 17.9 | 0.58 | 2.0 | Sidney | 44 | -10 | 21.7 | 1.35 | 2.0 | | | | |
| Mascoutah | 62 | -10 | 29.6 | 1.48 | 3.2 | Atlantic† | 42 | -19 | 18.0 | 1.10 | 11.0 | Sigourney | 44 | -12 | 20.2 | 0.59 | 0.5 | | | | |
| Mattoon | 54 | -3 | 29.2 | 1.88 | 5.1 | Audubon | 39 | -15 | 20.4 | 0.72 | 2.0 | Spencer | 44 | -22 | 13.4 | 0.32 | ... | | | | |
| Minonk† | 47 | -2 | 24.0 | 1.04 | 7.0 | Bedford | 45 | -12 | 20.4 | 0.72 | 4.0 | Spirit Lake† | 44 | -24 | 15.4 | 0.82 | 3.2 | | | | |
| Monmouth† | 55 | -7 | 24.7 | 0.47 | 1.0 | Belleplaine | 42 | -12 | 18.7 | 0.28 | 1.8 | Storm Lake† | 39 | -19 | 16.4 | 0.28 | 3.2 | | | | |
| Morrisonville† | 55 | -0 | 28.2 | 2.02 | 4.5 | Bonaparte† | 53 | -7 | 22.5 | 0.93 | 0.0 | Stuart | 40 | -13 | 17.8 | 0.15 | 1.5 | | | | |
| Mount Carmel† | 55 | -1 | 27.4 | 1.50 | 5.5 | Britt | 40 | -13 | 14.0 | 0.41 | 4.1 | Toledo | 41 | -14 | 17.4 | 0.50 | 1.0 | | | | |
| Mount Pulaski | 55 | -1 | 30.4 | 2.12 | 4.0 | Burlington ^d | 58 | -2 | 26.1 | ... | ... | Villisca | 45 | -14 | 18.0 | 0.70 | 3.0 | | | | |
| Mount Vernon | 55 | -7 | 34.2 | 2.24 | 3.0 | Clear Lake | 36 | -21 | 14.4 | 0.20 | 2.0 | Vinton ¹ | 40 | -10 | 18.6 | 0.28 | 2.0 | | | | |
| New Burnside† | 64 | 0 | 34.2 | 2.24 | 3.0 | Clinton | 53 | -8 | 21.8 | 0.42 | 1.2 | Waspeilo | 51 | -11 | 20.3 | 0.38 | T. | | | | |
| Olney | 60 | -4 | 32.0 | 1.89 | 5.4 | College Springs | 45 | -10 | 21.1 | 0.86 | 3.0 | Washington | 42 | -15 | 16.8 | 0.46 | 5.0 | | | | |
| Oswego | 46 | -2 | 23.1 | 1.52 | 3.0 | Corning† | 45 | -10 | 24.0 | 0.60 | 2.0 | Washta | 42 | -15 | 16.8 | 0.38 | 1.0 | | | | |
| Ottawa† | 46 | -5 | 23.6 | 1.42 | 3.0 | Council Bluffs | 49 | -9 | 21.4 | 0.70 | 2.0 | Waterloo | 42 | -15 | 16.8 | 0.38 | 1.0 | | | | |
| Palestine† | 57 | -8 | 29.6 | 2.33 | 3.8 | Cresco† | 36 | -20 | 12.2 | 0.38 | 1.7 | Waverly | 38 | -16 | 16.5 | 0.38 | 2.8 | | | | |
| Pana | 54 | -6 | 29.0 | 1.33 | 2.8 | Decorah† | 37 | -20 | 14.2 | 0.31 | ... | Webster City | 37 | -17 | 16.6 | 0.04 | T. | | | | |
| Paris | 51 | -1 | 27.4 | 1.37 | ... | Cedarfalls | 40 | -16 | 17.4 | 0.20 | ... | Westbend ¹ | 37 | -22 | 13.8 | 0.40 | 4.0 | | | | |
| Peoria a† | 52 | -1 | 28.3 | 0.93 | ... | Cedar Rapids† | 44 | -12 | 20.4 | 0.65 | 2.6 | Westunio | 36 | -17 | 15.5 ^c | 0.80 | 3.0 | | | | |
| Peoria b† | 52 | -4 | 27.5 | 2.23 | 1.5 | Chariton | 49 | -9 | 22.5 | 0.93 | 0.5 | Whitten ¹ | 36 | -17 | 15.5 ^c | 0.20 | 2.0 | | | | |
| Philo† | 55 | -4 | 27.5 | 2.23 | 1.5 | Chickasaw | 36 | -25 | 9.7 | 0.25 | 2.5 | Wilton Junction† | 49 | -9 | 21.7 | 0.70 | 1.0 | | | | |
| Plumhill† | 61 | -7 | 32.8 | 1.79 | 2.0 | Clintonville | 35 | -25 | 9.7 | 0.25 | 2.5 | Winterset† | 44 | -10 | 20.6 | 0.71 | T. | | | | |
| Rantoul† | 55 | -3 | 27.0 | 1.98 | 2.6 | Corning† | 45 | -18 | 14.6 | 0.53 | 1.8 | Kansas. | 55 | 1 | 26.2 | 2.13 | 2.5 | | | | |
| Raum | 62 | -2 | 34.6 | 1.84 | 4.5 | Deloit† | 51 | -7 | 28.4 | 0.75 | T. | Achilles | 56 | -6 | 25.7 | 0.29 | 2.8 | | | | |
| Reynolds | 52 | -7 | 23.0 | 0.50 | 1.5 | Beloit† | 52 | -8 | 21.2 | 0.35 | 2.5 | Alticoona ^{*3} | 56 | -6 | 25.7 | 2.99 | 10.0 | | | | |
| Riley† | 46 | -7 | 20.4 | 0.76 | 2.5 | Burlington† | 59 | -9 | 28.9 | 0.79 | 2.27 | Anthony | 56 | -3 | 25.0 | 2.65 | 6.0 | | | | |
| Robinson | 59 | -4 | 31.2 | 1.74 | ... | Beloit† | 52 | -8 | 21.2 | 0.32 | 2.5 | Augusta | 61 | -1 | 20.4 | 1.60 | 3.5 | | | | |
| Roundgrove† | 53 | -4 | 20.6 ^e | 0.54 | 2.6 | Brilliant ¹ | 50 | -18 | 17.4 | 0.14 | 2.0 | Beloit† | 59 | -9 | 28.9 | 2.27 | 10.5 | | | | |
| St. Charles ^{*1} | 45 | -5 | 21.6 | 1.97 | 3.0 | Chariton | 44 | -11 | 21.2 | 0.92 | T. | Burlington† | 59 | -9 | 28.9 | 2.27 | 10.5 | | | | |
| St. John | 61 | -4 | 31.8 | 1.33 | ... | Dows† | 37 | -21 | 14.2 | 0.47 | 2.8 | Campbell | 51 | -4 | 24.5 | 1.84 | 3.0 | | | | |
| Scales Mound | 45 | -12 | 16.8 | 0.41 | 2.8 | Eldon† | 40 | -10 | 20.8 | 0.81 | T. | Chanute | 61 | | | | | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|-----------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| | | | | | | | | | | | | | | | | | |
| <i>Kansas—Cont'd.</i> | | | | | | <i>Louisiana—Cont'd.</i> | | | | | | <i>Massachusetts—Cont'd.</i> | | | | | |
| Gibson. | 58 | -10 | 27.9 | 0.45 | 2.0 | Hammond. | 78 | 23 | 50.6 | 2.83 | 6.0 | Groton. | 49 | -12 | 25.2 | 2.57 | 16.0 |
| Gove*. | 58 | -6 | 28.6 | 0.82 | 5.0 | Jeanerette. | 77 | 21 | 48.7 | 4.61 | | Hyannis*†. | 49 | 2 | 32.6 | 2.59 | 0.4 |
| Grenola. | 64* | -6 | 31.6 | 1.89 | 3.0 | Jennings. | 80 | 32 | 50.0 | 1.87 | | Jefferson. | | | | 4.13 | 16.0 |
| Halstead. | | | | | | Lafayette. | 74 | 23 | 48.4 | 3.13 | | Lawrence. | 54 | -14 | 27.4 | 2.58 | 5.2 |
| Horton. | 49 | -2 | 24.8 | 1.65 | 5.0 | Lake Charles†. | 75 | 24 | 48.9 | 2.11 | | Leeds. | 51 | -8 | 25.5 | 3.84 | 9.0 |
| Hoxie. | | | | | | Lake Providence. | 77 | 19 | 50.7 | 2.54 | 6.0 | Leicester Hill. | 51 | -7 | 29.0 | 4.83 | 7.0 |
| Hutchinson. | | | | | | Lawrence. | 79 | 27 | 50.7 | 1.63 | | Leominster. | | | | 3.02 | 9.0 |
| Independence. | 61 | -4 | 31.4 | 2.62 | 6.0 | Liberty Hill. | 76 | 17 | 45.5 | 1.71 | | Long Plain. | | | | 2.24 | |
| Lakin. | 55 | | | 1.70 | 5.0 | Mansfield. | 75 | 18 | 45.1 | 2.80 | | Lowell a. | 52 | -8 | 27.0 | 2.74 | |
| Lawrence. | 58 | -2 | 27.4 | 1.56 | 8.0 | Melville. | 74 | 21 | 48.7 | 3.05 | | Lowell b. | 54 | -10 | 26.8 | | |
| Lebanon. | 50 | -5 | 25.8 | 0.70 | 6.0 | Monroe. | 74 | 18 | 45.2 | 2.16 | 3.0 | Ludlow Center. | 44 | -10 | 22.6 | 3.25 | 15.5 |
| Lebo†. | 59 | -5 | 27.8 | 3.62 | 7.5 | Montgomery. | 73 | 25 | 48.5 | 3.65 | | Lynn a. | 51 | -3 | 28.8 | 2.86 | |
| McPherson. | 58 | -2 | 28.6 | 2.37 | 5.0 | New Iberia. | 82 | 15 | 44.6 | 4.57 | 5.0 | Mansfield*†. | 52 | -15 | 27.7 | 3.16 | 3.2 |
| Manhattan b. | 58 | 1 | 26.3 | 1.38 | 3.5 | Oakridge. | 75 | 23 | 47.6 | 2.39 | | Middleboro. | 53 | -6 | 29.5 | 2.48 | 1.5 |
| Manhattan c. | 60 | -1 | 26.8 | 1.55 | 3.5 | Opelousas. | 75 | 23 | 47.6 | 2.39 | | Monson. | 53 | -16 | 27.0 | 3.06 | 8.5 |
| Marion†. | 66 | -3 | 29.0 | 1.80 | 4.0 | Oxford. | 75 | 11 | 42.9 | 1.69 | 2.0 | New Bedford a. | 57 | 2 | 31.8 | 2.18 | 2.0 |
| Medicine Lodge†. | 65 | -1 | 20.0 | 2.00 | 5.0 | Paincourtville†. | 76 | 24 | 50.2 | 4.60 | | New Bedford b. | 52 | 0 | 31.7 | 2.41 | 2.8 |
| Mineapolis†. | 57 | 0 | 25.6 | 1.40 | 3.0 | Plain Dealing†. | 75 | 14 | 42.8 | 3.08 | 4.2 | New Salem. | 49 | -8 | 25.3 | 2.88 | 12.2 |
| Morantown†. | 59 | -5 | 28.1 | 2.57 | 8.8 | Plaquemine. | 73 | 23 | 49.2 | 3.18 | T. | Pittsfield. | 50 | -8 | 25.0 | 2.19 | 8.5 |
| Mouthope*†. | 58 | -2 | 29.7 | 2.03 | 4.0 | Rayne. | 74 | 22 | 49.0 | 3.14 | | Plymouth*†. | 53 | -4 | 31.6 | 2.76 | |
| Ness City*. | 56 | -2 | 27.5 | 1.34 | 2.0 | Robeline. | 75 | 12 | 43.7 | 2.65 | 2.0 | Princeton. | | | | 4.47 | 16.0 |
| Newton. | 60 | 0 | 29.6 | 2.20 | 5.0 | Ruston. | 74 | 14 | 44.2 | 2.09 | 4.0 | Salem. | | | | 2.81 | 11.0 |
| Norwich. | | | | 2.55 | 5.0 | Schriever. | 79 | 24 | 50.6 | 4.31 | | Somerset*†. | 52 | -6 | 31.8 | 1.99 | 3.0 |
| Oberlin. | | | | 0.40 | 3.0 | Shellbeach. | 68 | 28 | 50.4 | 2.38 | | South Clinton. | | | | 3.75 | 14.5 |
| Olathe†. | 59 | -7 | 25.7 | 2.30 | 10.0 | Southern University†. | 77 | 25 | 49.7 | 4.85 | | Springfield Armory. | 51 | 4 | 38.1 | 3.05 | 10.0 |
| Osage City†. | 62 | -1 | 28.4 | 1.63 | 7.0 | Sugar Ex. Station. | 73 | 29 | 49.0 | 4.15 | | Sterling. | | | | 3.80 | 18.3 |
| Osborne. | | | | 1.12 | .... | Sugartown. | 72 | 24 | 48.2 | 2.95 | | Taunton b. | 51 | -5 | 28.0 | 2.48 | 2.0 |
| Oswego. | 66 | -2 | 33.2 | 3.20 | 1.3 | Wallace. | 79 | 25 | 50.7 | 4.66 | | Taunton c. | 51 | -13 | 28.4 | 2.68 | .... |
| Ottawa. | 59 | -10 | 27.3 | 1.97 | 9.0 | <i>Maine.</i> | | | | | | Turner Falls. | 46 | 2 | 25.9 | 1.52 | .... |
| Phillipsburg. | | -4 | .... | 0.53 | 5.0 | Bar Harbor. | 52 | -7 | 25.6 | 3.60 | 16.5 | Webster. | | | | 1.75 | 6.5 |
| Pittsburgh. | 57 | -10 | 28.3 | 1.80 | .... | Belfast*†. | 41 | -11 | 23.5 | 2.96 | 17.0 | Westboro†. | 54 | -10 | 29.1 | 2.24 | 4.5 |
| Rome*†. | 60 | -2 | 30.6 | 2.55 | 6.0 | Calais. | 55 | -7 | 24.0 | 2.41 | 16.0 | Weston. | 54 | -9 | 27.8 | 3.10 | 9.2 |
| Russell. | 56 | -3 | 27.8 | 1.21 | 5.0 | Cornish*†. | 49 | -10 | 23.6 | 3.12 | 19.0 | Williamstown. | 53 | -10 | 26.8 | 2.42 | 12.6 |
| Salina†. | 56 | 1 | 26.8 | 1.67 | 4.0 | Cumberland Mills. | 50 | -20 | 25.2 | 3.19 | 10.2 | Winchendon. | | | | 2.64 | 18.2 |
| Sedan†. | 63 | -5 | 31.8 | 2.49 | 5.5 | Fairfield. | 43 | -30 | 21.4 | 1.42 | 12.5 | Worcester a. | 58 | -7 | 26.6 | 2.02 | |
| Toronto. | 65 | -8 | 30.5 | 1.69 | 5.0 | Farmington. | 45 | -21 | 19.7 | 1.44 | 9.9 | Worcester b. | 54 | -6 | 27.7 | 3.04 | 6.2 |
| Ulysses. | | | | 1.60 | 12.0 | Flagstaff. | 50 | -25 | 18.0 | 1.05 | 10.5 | <i>Michigan.</i> | | | | | |
| Viroqua†. | 64 | -7 | 26.6 | 2.60 | 21.0 | Gardiner. | 45 | -18 | 22.6 | 2.74 | 13.2 | Adrian. | 52 | -3 | 24.4 | 1.85 | 6.2 |
| Wallace. | | | | 0.70 | 7.0 | Lewiston. | 45 | -19 | 22.2 | 2.85 | 14.8 | Agricultural College. | 44 | 3 | 24.8 | 1.42 | 8.8 |
| Wamego*†. | 56 | 0 | 25.6 | 1.45 | 1.5 | Mayfield. | 43 | -19 | 18.1 | 1.14 | 11.0 | Allegan. | 45 | 3 | 28.8 | 3.00 | 25.0 |
| Winfield. | 63 | 1 | 28.0 | 1.20 | 5.0 | North Bridgton. | 48 | -20 | 23.6 | 3.19 | 21.0 | Alma. | 44 | -7 | 23.7 | 2.03 | 11.0 |
| Yates Center. | 61 | 1 | 29.2 | 2.63 | 7.5 | Orono. | 43 | -14 | 20.7 | 1.27 | 7.0 | Ann Arbor. | 50 | 5* | 25.8* | 1.94 | 8.8 |
| <i>Kentucky.</i> | | | | | | Winslow. | 46 | -28 | 21.9 | 1.59 | 8.2 | Arabela. | 41 | -1 | 25.4 | 2.47 | 7.0 |
| <i>Alpha*.</i> | -3 | 36.3 | 2.74 | 9.0 | <i>Maryland.</i> | | | | | | Baldwin. | 46 | -13 | 22.1 | 2.08 | 16.0 | |
| Ashland. | 70 | 0 | 35.5 | .... |  | Bachmans Valley. | 60 | 4 | 31.4 | 6.02 | 2.5 | Ball Mountain. | 37 | 3 | 23.7 | 1.39 | 5.3 |
| Bardstown†. | 65 | -2 | 35.2 | 2.74 | 4.0 | Boettcherville. | 58 | 0 | 31.9 | 1.85 | | Battlecreek. | 50 | 3 | 25.8 | 2.25 | 9.0 |
| Blandville†. | 60 | -1 | 34.1 | 2.25 | 3.5 | Charlotte Hall. | 61 | 10 | 34.2 | 2.73 | 1.5 | Bay City. | 44 | 3 | 24.1 | 1.46 | 6.0 |
| Bowling Green b†. | 63 | -1 | 34.7 | 2.96 | 7.2 | Cherryfields ² . | | | | | | Berlin. | 45 | -6 | 23.2 | 2.34 | 10.7 |
| Burnside†. | | | | 2.69 | 2.0 | Chestertown. | 62 | 16 | 35.6 | 5.98 | 3.0 | Berrien Springs. | 51 | 3 | 26.0 | 3.55 | 21.5 |
| Caddo. | 63 | -7 | 31.8 | 4.57 | 11.0 | Collegepark. | 61 | 4 | 36.0 | 4.41 | | Big Rapids. | 43 | -7 | 21.8 | 1.20 | 5.0 |
| Canton*†. | 62 | 0 | 36.2 | 2.96 | 9.0 | Cumberland b. | 58 | 14 | 36.6 | 3.45 | 5.8 | Birmingham. | 47 | 0 | 25.7 | 2.45 | 13.0 |
| Carrollton. | 60 | -2 | 32.3 | 1.99 | 1.5 | Darlington. | 60 | 9 | 33.1 | 4.08 | 4.0 | Boon. | 43 | -10 | 18.8 | 2.58 | 25.9 |
| Cattlettsburg. | | | | 2.88 | 1.0 | Deer park. | 58 | -20 | 26.7 | 3.99 | | Calumet. | 36 | -4 | 19.2 | 3.07 | 36.0 |
| Earlington. | 65 | -8 | 35.2 | 2.40 | 7.0 | Easton. | 63 | 13 | 35.2 | 3.96 | 1.2 | Camden d. | 40 | -1 | 24.4 | 1.30 | |
| Edmonton†. | 63 | -8 | 35.4 | 2.87 | 6.0 | Ellicott City. | 66 | 6 | 33.6 | 5.32 | 8.2 | Carsonville. | 47 | 0 | 25.2 | 1.89 | 7.0 |
| Ensor. | 62 | -7 | 33.1 | 2.65 | .... | Fallston. | 61 | 8 | 33.8 | 4.07 | 8.0 | Charlevoix. | 44 | 6 | 26.9 | 2.90 | 29.0 |
| Eubank. | 65 | -12 | 34.2 | 2.55 | 9.1 | Frederick. | 60 | 3 | 34.0 | 3.46 | 4.5 | Cheboygan. | 43 | 0 | 22.1 | 1.52 | 11.5 |
| Falmouth†. | | | | 3.09 | 8.3 | Frostburg. | 64 | 5 | 31.7 | 2.75 | | Clinton. | 53 | 1 | 25.7 | 2.19 | 11.2 |
| Fords Ferry. | 64 | -5 | 34.2 | 1.89 | 4.0 | Grantsville. | 60 | -4 | 26.8 | 2.73 | 22.5 | Coldwater. | 51 | -1 | 25.5 | 2.00 | |
| Georgetown. | 63 | -8 | 33.8 | .... |  | Greatfalls. | 66 | 5 | 34.0 | 2.86 | | East Tawas. | 40 | 1 | 23.6 | 1.15 | |
| Greensburg†. | 66 | -8 | 33.4 | 3.85 | 5.8 | Greenspring Furnace. | 63 | 1 | 32.3 | 3.93 | 4.8 | Eloise. | 50 | -2 | 25.8 | 2.90 | 6.0 |
| Henderson†. | 63 | 6 | 34.6 | .... |  | Hagerstown [†] . | 62 | 4 | 32.6 | 2.93 | 11.5 | Ewen. | 33 | -23 | 15.8 | | |
| Hopkinsville†. | 64 | -8 | 36.2 | 3.51 | 8.5 | Hancock. | 61 | 4 | 31.9 | 1.89 | 4.2 | Fairview. | 54 | 1 | 24.3 | 1.51 | |
| Irvington. | 61 | -8 | 32.0 | 1.31 | 4.2 | Jewell†. | 68 | 10* | 35.0* | 4.35 | | Fitchburg. | 51 | 0 | 24.4 | 1.74 | 8.2 |
| Leitchfield†. | 63 | -10 | 32.8 | 2.94 | 6.2 | Johns Hopkins Hospital. | 67 | 12 | 33.8 | 3.95 | | Flint. | 50 | -1 | 24.8 | 1.28 | 1.0 |
| Loretto. | 66 | -10 | 32.6 | 2.55 | 5.0 | Laurel. | 67 | 8 | 36.8 | 4.39 | 7.0 | Frankfort. | 41 | 10 | 26.2 | | |
| Lyndon†. | 60 | -2 | 31.2 | 1.82 | .... | Mardela Springs. | 64 | 11 | 37.5 | 2.69 | 2.0 | Gladwin. | 45 | -11 | 22.6 | 2.50 | 15.0 |
| Maysville. | 66 | -5 | 33.6 | 3.27 | 8.6 | Mount St. Marys Coll. | 59 | 7 | 32.6 | 3.04 | 5.0 | Grand Rapids. | 50 | -4 | 25.1 | 3.51 | 18.0 |
| Middlesboro†. | 68 | -5 | 35.1 | 3.62 | 4.4 | New Market. | 60 | 10 | 33.3 | 3.39 | 3.5 | Grape. | 53 | 0 | 25.9 | 3.34 | 11.5 |
| Mount Hermon. | 63 | -2 | 34.4 | 2.29 | 4.3 | Pocomoke City. | 70 | 16 | 44.6 | 2.77 | | Grayling. | 44 | -16 | 20.1 | 2.85 | 27.0 |
| Mount Sterling†. | 63 | 0 | 33.0 | 3.84 | 18.0 | Princess Anne. | 63 | 12 | 37.6 | 2.45 | 0.5 | Hanover. | 52 | 1 | 24.0 | 1.68 | 7.0 |
| Owensboro†. | 63 | -1 | 34.3 | 2.49 | 3.2 | Shadysburg. | 64 | -5 | 31.9 | 3.82 | 8.0 | Harrison. | 42 | -11 | 21.5 | 1.17 | 8.8 |
| Owenton†. | 63 | -1 | 32.0 | 2.84 | 6.5 | Smithsburg. | 62 | 4 | 32.5 | 4.75 | 8.0 | Harrisville. | 43 | -6 | 22.6 | 1.77 | 17.7</ |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|---------------------------------|-------------------------------|----------------|-------------------|--------------------------|-------------------------|----------------------------|-------------------------------|-----------------|-------------------|--------------------------|-------------------------|----------------------------|-------------------------------|------------------|-------------------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean | Rain and melted snow. | Total depth of snow. |
| Michigan—Cont'd. | | | | | | Minnesota—Cont'd. | | | | | | Missouri—Cont'd. | | | | | |
| Mancelona | o | o | o | In. | In. | St. Charles† | o | o | o | In. | In. | Lebanon | o | o | o | In. | In. |
| Manistee | 44 | -11 | 19.8 | 3.50 | 33.0 | St. Cloud | 43 | -22 | 13.6 | 0.35 | 1.5 | Lexington | 64 | 1 | 22.2 | 3.55 | 0.5 |
| Manistique | 43 | 3 | 24.3 | 1.26 | 12.0 | St. Olaf | 38 | -28 | 11.4 | 0.00 | 0.0 | Liberty | 58 | -3 | 27.5 | 1.65 | 4.0 |
| Middle Island* ¹⁰ | 36 | -5 | 18.0 | 1.07 | 11.1 | St. Peter | 44 | -24 | 10.8 | 0.27 | 3.0 | Louisiana | 59 | -5 | 23.4 | 1.81 | 9.0 |
| Midland | 40 | 6 | 25.9 | ..... | ..... | Sandy Lake Dam | 38 | -16 | 15.7 | 0.12 | 1.2 | Marblehill | 62 | -11 | 28.0 | 1.58 | 4.5 |
| Motiville | 46 | 2 | 25.1 | ..... | ..... | Shakopee | 40 | -45 | 7.8 | 0.38 | 4.6 | Marshall† | 64 | -7 | 32.6 | 2.53 | 2.0 |
| Mount Clemens | 48 | -7 | 24.1 | 2.09 | 7.5 | Slayton | 37 | -18 | 14.0 | 0.05 | 0.5 | Maryville | 48 | -8 | 20.3 | 1.26 | 3.0 |
| Mount Pleasant | 45 | -1 | 25.0 | 2.42 | 8.0 | Tower† | 51 | -17 | 17.6 | T | T | Mexico† | 63 | -9 | 27.8 | 1.82 | 4.2 |
| Muskegon | 43 | 5 | 26.2 | 1.14 | 5.0 | Two Harbors | 54 | -29 | 14.9 | 0.25 | 2.2 | Mineralspring | 65 | -3 | 32.8 | 2.37 | 5.5 |
| Newberry | 35 | -9 | 16.4 | 0.73 | 8.0 | Wabasha* ¹ | 37 | -22 | 12.5 | 0.60 | 6.0 | Montreal | 63 | -14 | 30.8 | 1.52 | 6.0 |
| North Marshall | 49 | -3 | 23.6 | 2.24 | 4.0 | Willmar | 46 | -18 | 12.8 | T | T | Mount Vernon | 69 | -10 | 35.1 | 1.90 | 7.5 |
| Northport | 46 | 9 | 26.4 | 3.30 | 33.0 | Willow River | 44 | -43 | 8.6 | 0.30 | 3.0 | Neosho | 68 | -12 | 33.7 | 1.78 | 8.5 |
| Old Mission | 45 | 8 | 25.6 | 2.35 | 23.5 | Winnebago City | 30 | -17 | 14.6 | 0.09 | 1.0 | New Haven | 66 | -10 | 30.2 | 1.56 | 4.0 |
| Olivet | 47 | 4 | 24.8 | 2.52 | 12.0 | Zumbrota† | 38* | -26 | 13.5 | ..... | ..... | New Madrid | 72 | -3 | 39.9 | 2.61 | 2.5 |
| Omer | 45 | -12 | 21.6 | 1.15 | 6.5 | Mississippi. | | | | | | New Palestine | ..... | ..... | ..... | 2.36 | 7.0 |
| Ovid | 47 | 3 | 24.8 | 1.74 | 5.0 | Aberdeen | 70 | 14 | 40.9 | 2.30 | T | Oakfield | 64 | -5 | 32.5 | 0.73 | 4.0 |
| Parkville | ..... | ..... | ..... | 2.44 | 8.0 | Agricultural College | 73 | 12 | 43.2 | 2.20 | T | Oliden† | 63 | 2 | 33.6 | 1.40 | 3.5 |
| Petoskey | 43 | 4 | 24.3 | 2.17 | 23.0 | Austin† | 70 | 9 | 41.0 | 3.75 | 4.0 | Oregon a | 50 | -4 | 23.8 | 2.06 | 9.1 |
| Plymouth | 49 | -2 | 25.6 | 1.38 | 5.5 | Batesville† | 61 | 10 | 37.4 | 2.10 | 4.0 | Oregon b | 55 | -4 | 25.6 | 1.94 | 9.5 |
| Port Austin | 45 | 5 | 25.7 | 0.25 | 2.0 | Bay St. Louis | 73 | 25 | 45.8 | 4.51 | ..... | Palmyra* ⁵ | 58 | -4 | 26.3 | 2.00 | 13.0 |
| Powers | 39 | -15 | 14.8 | 0.35 | 3.5 | Biloxi† | 74 | 24 | 49.6 | 5.78 | ..... | Philippines* ¹¹ | 63 | 1 | 29.8 | 1.29 | 3.9 |
| Reed City | 40 | -12 | 19.0 | 1.00 | 7.0 | Booneville | 65 | 19 | 38.7 | 3.11 | ..... | Pickering* ³ | 63 | -16 | 19.2 | 1.61 | 3.0 |
| Rockland | 42 | -15 | 15.6 | 2.40 | 24.0 | Brookhaven | 75 | 18 | 46.2 | 2.52 | ..... | Poplarbluff | 60 | -15 | 29.6 | 1.65 | 3.0 |
| Rogers City | 46 | -5 | 23.4 | 2.19 | 13.0 | Canton† | 73 | 15 | 44.0 | 3.46 | T | Potosi | 50 | -6 | 33.1 | 1.90 | 7.0 |
| Romeo | 40 | 2 | 24.7 | 3.05 | 12.0 | Columbus a | ..... | ..... | ..... | ..... | ..... | Princeton | 66 | -17 | 30.8 | 1.67 | 4.0 |
| Saginaw | 48 | 4 | 25.8 | 2.11 | 8.0 | Crystal Springs† | 74 | 18 | 45.8 | 2.95 | ..... | Rhineland | 55 | -4 | 24.9 | 1.80 | 4.3 |
| St. Ignace | 42 | -3 | 23.2 | 0.50 | 5.0 | Edwards | 74 | 19 | 45.2 | 2.83 | 2.0 | Richmond | 61 | -6 | 30.0 | 1.16 | 6.0 |
| St. Johns | 46 | 5 | 26.4 | 0.90 | 5.0 | Fayette | 75 | 20 | 46.8 | 3.88 | 1.0 | Rolla | 61 | -1 | 32.5 | 1.50 | 2.0 |
| St. Joseph | ..... | ..... | ..... | 2.75 | 18.5 | French Camps | ..... | ..... | ..... | ..... | ..... | St. Charles | 62 | 0 | 33.8 | 1.97 | 1.8 |
| Sandbeach | 47 | 0 | 26.1 | 0.67 | 2.5 | Greenville a | 69 | 18 | 41.8 | 1.66 | 2.5 | St. Joseph | 61 | -10 | 25.6 | 1.81 | 7.0 |
| Sidnaw | 38 | -23 | 16.4 | 0.68 | 7.1 | Greenville b† | 73 | 19 | 44.0 | 1.51 | 2.3 | Sarcocie* ³ | 63 | -10 | 34.6 | 1.34 | 6.5 |
| Somerset | 50 | 1 | 24.5 | 2.47 | 11.5 | Greenwood | 71 | 19 | 44.4 | 1.93 | 3.0 | Sedalia | 63 | -1 | 32.5 | 1.50 | 2.0 |
| South Haven | 52 ^b | 9 ^a | 26.9 ^a | 2.47 | 6.0 | Hattiesburg† | 71 | 21 | 46.3 | 2.95 | ..... | Seymour | 62 | -3 | 30.8 | 1.20 | 2.5 |
| Stanton† | 46 | 0 | 23.6 | ..... | ..... | Holly Springs† | 61 ^c | 11 ^c | 36.4 ^c | 2.07 | 5.0 | Shelbina | 62 | 0 | 33.8 | 1.97 | 1.8 |
| Thornville | 46 | 1 | 25.7 | 1.56 | 11.5 | Jackson | 73 | 18 | 42.9 | 2.07 | 1.0 | Sikeston | 56 | -4 | 26.5 | 1.80 | 9.0 |
| Traverse City | 48 | -1 | 28.8 | 3.20 | 32.0 | Kosciusko | 65 | 12 | 40.8 | 3.57 | 4.2 | Steffenville | 61 | -15 | 27.6 | 0.86 | 5.0 |
| Vandalia | 52 | -4 | 25.6 | 2.68 | 11.8 | Lake† | 70 | 15 | 42.4 | 3.05 | ..... | Stellada† | 53 | -8 | 22.2 | 2.70 | 6.0 |
| Vassar | 49 | -5 | 25.1 | 1.23 | 1.6 | Logtown† | 72 | 26 | 49.4 | 3.66 | 6.0 | Vichy | 71 | -9 | 30.8 | 0.66 | 4.5 |
| Vermillion Point* ¹⁰ | 38 | 0 | 17.0 | ..... | ..... | Louisville† | 66 | 10 | 41.2 | 1.88 | ..... | Warrensburg | 62 | -5 | 27.2 ^c | 1.92 | 6.4 |
| Wasepi | 52 | -2 | 25.0 | 2.18 | ..... | Macon | 73 | 14 | 43.5 | 2.01 | 1.0 | Warrenton | 62 | -8 | 27.0 | 1.78 | 6.0 |
| Waverly | 47 | -4 | 24.0 | 2.25 | 8.6 | Magnolia† | 74 | 20 | 46.3 | 4.56 | ..... | Wheatland | 63 | -16 | 31.3 | 1.64 | 3.5 |
| West Harrisville | 44 | -14 | 20.7 | 1.22 | 11.8 | Meridian | 73 | 15 | 44.8 | 2.50 | ..... | Willow Springs | 64 | -4 | 32.4 | 1.32 | 2.2 |
| Wetmore | 36 | -24 | 16.2 | 1.67 | 21.0 | Natchez† | 78 | 21 | 47.1 | ..... | ..... | Zeitonia | 64 | -10 | 23.6 | 0.80 | 8.0 |
| White Cloud | 44 | -5 | 23.0 | 1.52 | 12.7 | Okolona† | 72 | 9 | 41.2 | 1.37 | ..... | Montana. | 50 | -29 | 22.3 | 1.05 | 10.5 |
| Williamston | 44 | 5 | 23.1 | ..... | ..... | Palo Alto | 75 | 11 | 43.1 | 2.07 | 1.2 | Billing... ¹ | 60 ^b | -14 ^b | 23.4 ^b | 0.10 | 1.0 |
| Ypsilanti | 48 | 0 | 25.7 | 2.24 | 9.8 | Pontotoc | 70 | 10 | 41.2 | 3.18 | 2.0 | Boulder | 50 ^c | -15 ^c | 24.6 ^c | 0.05 | 0.5 |
| Minnesota. | | | | | | Port Gibson† | 75 | 20 | 46.2 | 2.49 | 3.8 | Castle | 49 | -13 | 22.6 | 0.36 | 3.6 |
| Adat | 40 | -34 | 7.9 | 0.17 | 3.0 | Ripley | 68 | 7 | 35.6 | 3.42 | 5.5 | Corvallis | 59 | -11 | 24.9 | 0.02 | 0.2 |
| Albert Lea | 36 | ..... | ..... | 0.12 | 1.3 | St. Olaf | 74 | 20 | 45.3 | ..... | ..... | Crow Agency | 61 | -15 | 20.6 | 0.24 | 6.0 |
| Alexandria† | 45 | -25 | 10.6 | 0.09 | 0.9 | Thornton | ..... | ..... | ..... | ..... | ..... | Darby | 40 | 2 | 22.4 | T | T. |
| Beardsley | 43 | -23 | 15.0 | 0.13 | 1.2 | Tupelo† | ..... | ..... | ..... | ..... | ..... | Dearborn Canyon | 50 | -30 | 23.6 | 0.80 | 8.0 |
| Bermidji | 45 | -34 | 13.4 | 0.52 | 5.0 | Walnut Grove | 73 ^c | 18 ^c | 45.7 ^c | 3.42 | 2.0 | Deer Lodge | 51 | -14 | 17.8 | ..... | ..... |
| Bird Island | 47 | -18 | 14.8 | T | T | Water Valley† ¹ | 69 | 10 | 40.0 | 2.53 | 3.0 | Dell | 41 | 0 | 16.6 | 0.20 | 2.0 |
| Blooming Prairie† | 39 | -25 | 11.7 | 0.05 | 0.5 | Waynesboro | 78 | 20 | 46.6 | 5.71 | ..... | Ekalaka | 49 | -16 | 19.8 | 0.47 | 4.7 |
| Brainerd | 40 | -36 | 9.6 | 0.35 | 3.5 | Woodville† | 72 | 23 | 47.4 | 3.22 | ..... | Florence | 52 | -8 | 21.3 | 0.41 | 4.0 |
| Caledonia† | 35 | -22 | 18.1 | 0.15 | 0.5 | Yazoo City† | 75 | 12 | 42.7 | 2.08 | 2.0 | Fort Benton | 56 | -18 | 24.6 | 0.40 | 4.0 |
| Collegeville | 41 | -22 | 17.2 | 0.10 | 0.9 | Missouri. | | | | | | Fort Keogh | 60 | -15 | 17.6 | 0.40 | 4.0 |
| Crookston† | 40 | -28 | 9.3 | 0.05 | 0.5 | Appleton City | 63 | -11 | 30.6 | 1.49 | 3.5 | Fort Logan | 49 | -24 | 12.8 | 0.56 | ..... |
| Deephaven | ..... | ..... | ..... | 0.12 | 1.2 | Arthur* ³ | 63 | -17 | 26.6 | 2.77 | 8.0 | Glasgow | 46 | -16 | 11.4 | 0.07 | 4.0 |
| Detroit City | 41 | -44 | 6.2 | 0.44 | 5.0 | Avalon | 54 | -8 | 25.6 | 1.68 | 3.0 | Glenwood | 43 | -14 | 18.2 | 0.80 | 8.0 |
| Farmington | ..... | ..... | ..... | T | T | Conception | 48 | -8 | 24.8 | 1.58 | 10.5 | Greatfalls† | 56 | -15 | 27.4 | 0.37 | 10.5 |
| Fergus Falls | 43 | -28 | 10.4 | 0.21 | 2.1 | Cowgill* ⁵ | 58 | -8 | 24.4 | 2.03 | 4.0 | Kalsipel† | 55 | -5 | 22.0 | 0.33 | 3.3 |
| Glencoe | ..... | ..... | ..... | 0.04 | 0.4 | Darksville | 55 | -3 | 25.2 | 1.10 | 5.0 | Kipp† | 53 | -27 | 23.2 | 0.66 | 6.6 |
| Grand Meadow† | 37 | -22 | 9.9 | 0.11 | 2.0 | Downing | ..... | ..... | ..... | ..... | ..... | Livingston† | 50 | -9 | 23.8 | 0.10 | 1.0 |
| Koochiching | 37 | -39 | 5.7 | 0.20 | ..... | East Lynne* ³ | 57 | 7 | 26.8 | 2.47 | 7.5 | Manhattan† | 51 | -21 | 15.0 | 0.11 | 1.0 |
| Lake City | 39 | -25 | 12.3 | 0.04 | 1.0 | Edgehill* ⁶ | 56 | 0 | 28.2 | 1.52 | 3.0 | Martinsdale† | 50 | -17 | 22.7 | 0.07 | 0.5 |
| Lake Jennie | 40 | -23 | 13.6 | 0.06 | 1.0 | Eightmile* ¹ | 58 | -6 | 26.3 | 1.98 | 7.0 | Marysville† | 47 | -15 | 21.0 | 1.89 | 12.0 |
| Lakeside† | 42 | -18 | 12.8 | T | T | Gallatin* ¹ | 62 | -20 | 29.6 | 1.42 | 7.0 | Missoula | 54 | -6 | 21.4 | 0.33 | 3.0 |
| Lake Winnibigoshish | 41 | -45 | 5.4 | 0.20 | 4.2 | Gordonville* ³ | 55 | -3 | 25.2 | 0.50 | 1.0 | Plains | 48 | -4 | 24.5 | 0.10 | 1.0 |
| Leech Lake | 43 | -51 | 5.2 | 0.44 | 4.4 | Gorin | ..... | ..... | ..... | ..... | ..... | Poplar | 45 | -16 | 11.8 | 0.60 | 6.0 |
| Long Prairie | 40 | - | | | | | | | | | | | | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|-----------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| Nebraska—Cont'd. | ○ | ○ | ○ | In. s. | In. s. | Nebraska—Cont'd. | ○ | ○ | ○ | In. s. | In. s. | New Jersey—Cont'd. | ○ | ○ | ○ | In. s. | In. s. |
| Aurora | ..... | ..... | ..... | 0.32 | 0.8 | Seneca * ¹ | 60 | -14 | 23.6 | 0.15 | 1.5 | Beverly † | 65 | 6 | 33.8 | 8.41 | 0.5 |
| Bartley | ..... | ..... | ..... | 0.14 | T. | Seward * ¹ | 50 | -8 | 22.5 | 0.72 | 2.2 | Billingsport * ¹ | 58 | 12 | 32.7 | 2.99 | .... |
| Bassett | ..... | ..... | ..... | 0.25 | 2.5 | Spragg | ..... | ..... | ..... | 0.30 | 3.0 | Boonton | 55 | 5 | 30.4 | 3.06 | 1.5 |
| Beatrice † | 44 | -7 | 21.6 | 0.74 | .... | Springview | 55 | -15 | 21.0 | 1.00 | 10.0 | Bridgeton | 65 | 14 | 36.1 | 4.85 | 0.2 |
| Beaver City † | 65 | -14 | 28.5 | 0.06 | T. | Stanton | ..... | ..... | ..... | 0.44 | 6.0 | Camden | 59 | 14 | 33.8 | 3.47 | 0.3 |
| Belleview | ..... | ..... | ..... | 0.30 | 3.3 | State Farm | 50 | -9 | 24.2 | ..... | ..... | Cape May C. H. | 61 | 11 | 37.5 | 2.67 | T. |
| Benedict | ..... | ..... | ..... | 0.49 | 4.6 | Strang * ¹ | 48 | -9 | 25.3 | 0.92 | 6.0 | Charlotteburg | 59 | 2 | 30.1 | 4.27 | 5.0 |
| Blair | 47 | -14 | 21.6 | 0.20 | 1.7 | Stratton | ..... | ..... | ..... | 0.18 | 1.3 | Chester | 55 | 4 | 30.1 | 2.58 | 9.0 |
| Bluehill | ..... | ..... | ..... | 0.39 | 4.0 | Superior * ⁶ | 48 | -6 | 24.5 | 0.60 | 6.0 | Clayton | 64 | 9 | 34.3 | 4.21 | 0.5 |
| Bradshaw | ..... | ..... | ..... | 0.25 | 1.5 | Tablerock | 50 | -9 | 26.4 | ..... | ..... | College Farm | 60 | 6 | 32.6 | 3.16 | 1.5 |
| Brokenbow | ..... | ..... | ..... | T. | T. | Tecumseh b † | 50 | -9 | 26.4 | 1.66 | 4.0 | Deckertown | 56 | 1 | 29.5 | 2.38 | 1.5 |
| Burchard | ..... | ..... | ..... | 0.43 | 4.0 | ..... | ..... | ..... | ..... | ..... | Dover | 54 | 6 | 29.6 | 2.67 | 1.5 | |
| Burwell | ..... | ..... | ..... | 0.65 | 6.5 | ..... | ..... | ..... | ..... | ..... | Egg Harbor City | 64 | 4 | 34.2 | 4.41 | T. | |
| Callaway † | 82 | -14 | 24.7 | T. | T. | ..... | ..... | ..... | ..... | ..... | Elizabeth | 60 | 7 | 32.6 | 3.63 | .... |  |
| Camp Clarke | 61 | -22 | 22.6 | 0.35 | 3.5 | Tekamah | 50 | -14 | 20.5 | 0.60 | 6.0 | Englewood | 58 | 0 | 30.0 | 4.07 | 8.3 |
| Central City * ⁵ | 48 | -14 | 22.8 | 0.25 | 2.5 | Thedford * ¹ | 60 | -20 | 22.3 | 0.15 | 1.5 | Flemington | 59 | 4 | 31.4 | 3.39 | T. |
| Chester | ..... | ..... | ..... | 1.67 | T. | Turlington † | 48 | -9 | 21.5 | 1.06 | 4.5 | Freehold | 64 | 7 | 33.8 | 3.77 | T. |
| Clatonia | ..... | ..... | ..... | 0.70 | 1.0 | Valentine † | 61 | -16 | 23.2 | 0.37 | 3.7 | Friesburg | 64 | 12 | 34.8 | 3.65 | 0.5 |
| Cody | ..... | ..... | ..... | 0.10 | 1.0 | Wakefield | 52 | -15 | 20.8 | 0.20 | 2.0 | Gillette | 58 | 10 | 31.2 | 3.63 | 2.0 |
| Columbus † | 60 | -15 | 24.4 | 0.11 | 0.5 | Wallace | ..... | ..... | ..... | 0.02 | 0.2 | Hammonton | ..... | ..... | 3.45 | 1.0 | |
| Creighton † | 53 | -15 | 20.8 | 0.35 | 2.0 | Wauneta | ..... | ..... | ..... | 0.05 | 0.5 | Hanover | 53 | 7 | 31.7 | 3.64 | T. |
| Crete | 49 | -8 | 23.4 | 0.60 | 4.5 | Weeping Water * ¹ | 46 | -15 | 18.9 | 1.04 | 8.0 | Hightstown | 61 | 9 | 33.2 | 4.23 | 0.5 |
| Culbertson | ..... | ..... | ..... | 0.07 | 0.2 | Westpoint † | 52 | -17 | 21.2 | 0.04 | 0.5 | Imlaystown | 64 | 8 | 34.5 | 3.38 | 0.4 |
| Curtis a | 64 | -7 | 29.6 | 0.16 | .... | ..... | ..... | ..... | ..... | ..... | Lambertville | 57 | 10 | 32.8 | 3.07 | T. | |
| David City | 53 | -12 | 11.8 | 0.40 | 3.5 | Willard | ..... | ..... | ..... | 0.01 | 0.1 | Lebanon | ..... | ..... | 4.20 | 5.5 | |
| Dawson | 52 | -7 | 24.8 | 1.27 | .... | Wilsonville * ¹ | 62 | -19 | 25.5 | 0.00 | .... | Moorestown | 64 | 10 | 34.5 | 4.00 | 1.2 |
| Dunning | ..... | ..... | ..... | ..... | ..... | Wymore * ¹ | 54 | -6 | 22.8 | 0.98 | T. | Mount Pleasant | 58 | 10 | 32.4 | 3.70 | 0.8 |
| Eden | ..... | ..... | ..... | 1.70 | 4.0 | York * ¹ | 52 | -10 | 23.8 | 0.80 | 8.0 | Newark b | 58 | 10 | 32.4 | 3.52 | 3.0 |
| Edgar * ¹ | 52 | 10 | 27.9 | 0.56 | 1.5 | Nevada. | ..... | ..... | ..... | ..... | ..... | New Brunswick a | 58 | 7 | 32.7 | 3.57 | 0.5 |
| Elba | ..... | ..... | ..... | 0.05 | 0.5 | Austin | 49 | 3 | 26.6 | 1.14 | 5.5 | Ocean City | 55 | 11 | 36.2 | 3.32 | .... |
| Ericson *† ¹ | 44 | -18 | 18.8 | 0.20 | 2.0 | Battle Mountain *1 | 44 | 2 | 24.3 | 0.27 | 0.2 | Paterson | 66 | 7 | 32.8 | 3.38 | 3.5 |
| Ewing † | ..... | ..... | ..... | 0.05 | 0.5 | Beowawe * ¹ | 51 | 0 | 23.2 | 0.42 | 2.0 | Perth Amboy | 59 | 9 | 33.7 | 4.01 | 7.8 |
| Fairbury † | 51 | -5 | 24.0 | 0.90 | T. | Blaine | ..... | 8 | ..... | 1.15 | 8.0 | Rancocas | ..... | ..... | 3.80 | 2.5 | |
| Fairfield | ..... | ..... | ..... | 0.30 | 1.0 | Bunkerville | ..... | ..... | ..... | ..... | ..... | Rivervale | 58 | -2 | 30.0 | 3.79 | 8.0 |
| Fairmont † | 53 | -10 | 24.7 | 0.60 | 2.0 | Carlin * ¹ | 40 | -1 | 16.5 | ..... | ..... | Roseland | 57 | 2 | 30.7 | 3.79 | 1.0 |
| Fort Robinson | 59 | -20 | 22.6 | 0.51 | 5.1 | Carson City | 58 | 3 | 30.4 | 0.13 | 0.1 | Salem | 63 | 14 | 36.2 | 4.44 | 0.5 |
| Fremont † | 48 | -14 | 21.0 | 0.70 | 4.0 | Clover Valley | ..... | ..... | ..... | 0.99 | 6.8 | Staffordville | 56 | 7 | 31.6 | 3.39 | 2.0 |
| Geneva † | 50 | -8 | 23.6 | 0.75 | 5.0 | Cranes Ranch | ..... | ..... | ..... | 0.67 | 0.7 | Toms River | 66 | 9 | 33.6 | 4.10 | 0.5 |
| Genoa | 59 | -15 | 23.7 | 0.15 | 1.6 | Darragh Ranch | ..... | ..... | ..... | 0.58 | 2.0 | Trenton | 60 | 14 | 35.3 | 3.86 | 2.0 |
| Gordon | ..... | ..... | ..... | 0.10 | .... | Elko * ¹ | 40 | 0 | 22.0 | 0.60 | 4.0 | Vineland | 65 | 7 | 35.2 | 3.37 | 0.5 |
| Gothenburg | 61 | -8 | 25.0 | 0.11 | 1.0 | Elko (near) | 51 | -15 | 19.0 | 0.99 | 11.0 | Woodbine | 63 | 16 | 37.0 | 3.37 | 2.0 |
| Grand Island a | ..... | ..... | ..... | 0.52 | 1.0 | Ely | 67 | -8 | 23.8 | 1.05 | 3.0 | New Mexico. | ..... | ..... | ..... | ..... |  |
| Greeley | ..... | ..... | ..... | T. | T. | Fenelon * ¹ | 39 | -5 | 17.8 | 0.90 | 9.0 | Albert | 54 | 4 | 28.4 | 2.18 | 6.0 |
| Hagler | ..... | ..... | ..... | T. | T. | Goleonda * ¹ | 50 | 3 | 24.3 | 0.19 | 1.0 | Albuquerque | 59 | 3 | 29.1 | 0.70 | 7.0 |
| Hartington † | 57 | -13 | 21.4 | 0.35 | 2.5 | Halleck * ¹ | 41 | -12 | 13.0 | 0.32 | 3.6 | Alma | 62 | -5 | 31.5 | 1.51 | 19.5 |
| Harvard | 55 | -11 | 25.6 | 0.38 | 3.8 | Hawthorne a * ¹ | 63 | 31 | 0.06 | ..... | ..... | Acuzte | 55 | -16 | 17.1 | 1.44 | 14.4 |
| Hastings * ¹ | 57 | -8 | 24.7 | 0.24 | 2.5 | Hawthorne b | 65 | 8 | 31.8 | 0.26 | 0.8 | Bernalillo | 54 | 3 | 29.5 | 0.75 | 7.5 |
| Hayes Center | ..... | ..... | ..... | T. | T. | Hotsprings | 50 | 5 | 27.7 | 0.40 | 4.0 | Buckwater | 54 | -2 | 24.5 | 0.40 | 4.0 |
| Hay Springs | 57 | -22 | 21.4 | 0.62 | 5.8 | Humboldt * ¹ | 50 | 5 | 27.7 | 0.40 | 4.0 | Buckmans | 48 | -30 | 14.2 | 1.22 | 15.0 |
| Hebron † | 47 | -6 | 23.8 | 0.94 | 2.7 | Lewers Ranch | 58 | 5 | 30.8 | 2.40 | 0.6 | Clayton | 66 | 2 | 30.4 | 0.85 | 8.5 |
| Hickman | ..... | ..... | ..... | 0.68 | 4.0 | Lovelocks *1 | 46 | 5 | 25.1 | ..... | ..... | Deming * ¹ | 72 | 10 | 37.0 | 0.60 | 6.0 |
| Holdredge b | ..... | ..... | ..... | T. | T. | McGill *1 | 51 | -2 | 22.4 | 0.04 | 0.0 | East Las Vegas † | 58 | -2 | 28.1 | 0.80 | 8.0 |
| Hooper * ¹ | 52 | -15 | 19.0 | 0.23 | 2.5 | Martins | 60 | 4 | 29.6 | 0.50 | 0.0 | Eddy | 75 | 10 | 37.0 | 1.70 | 6.0 |
| Imperial † | 67 | -15 | 26.6 | 0.92 | 4.5 | Mill City * ¹ | 58 | 4 | 26.1 | 0.60 | 2.0 | Engle † | 62 | 4 | 28.6 | 1.50 | 15.0 |
| Johnstown | ..... | ..... | ..... | 0.12 | 1.0 | Monitor Mill | 49 | -6 | 22.0 | 0.47 | 1.5 | Espanola | 55 | -14 | 29.1 | 0.60 | 8.0 |
| Kearney | ..... | ..... | ..... | 0.10 | 1.0 | Palisade * ¹ | 58 | 2 | 23.0 | 0.41 | 4.5 | Folsom | 55 | -14 | 35.5 | 0.70 | 7.0 |
| Kennedy | 60 | -18 | 28.8 | 0.40 | 4.0 | Palmetto | 64 | -1 | 26.7 | 0.30 | 3.0 | Fort Bayard | 63 | 10 | 35.5 | 0.70 | 7.0 |
| Kimball † | 55 | -16 | 23.1 | 0.55 | 5.5 | Panaca | 70 | -2 | 29.4 | T. | 0.0 | Fort Union | 63 | -2 | 27.4 | 1.50 | 11.0 |
| Kirkwood * ¹ | 63 | -14 | 21.2 | 0.24 | 2.5 | Reno * ¹ | 66 | 3 | 31.9 | 0.21 | 0.5 | Fort Wingate | 59 | 0 | 22.0 | 1.44 | 8.0 |
| Lexington † | 66 | -13 | 26.7 | 0.35 | 2.0 | Reno State University | 55 | 7 | 29.1 | ..... | ..... | Galisteo | 53 | 1 | 28.7 | 0.50 | 5.0 |
| Lincoln b | 49 | -6 | 24.0 | 0.30 | .... | Renzo * ¹ | 59 | 0 | 25.8 | 0.21 | 0.5 | Gila | 63 | 0 | 36.1 | 1.52 | 8.0 |
| Lincoln d | 50 | -3 | 24.9 | 0.58 | 3.3 | Silverpeak | 57 | 3 | 30.1 | 0.03 | 0.5 | Gallinas Spring † | 60 | 1 | 28.4 | 0.44 | 8.0 |
| Lodgepole † | 59 | -22 | 28.2 | 0.50 | 5.0 | Sodaville | 68 | 3 | 31.2 | 0.16 | T. | Glazito | 53 | 1 | 28.7 | 0.50 | 5.0 |
| Loup b * ¹ | 60 | -18 | 21.8 | T. | T. | South Fork | ..... | ..... | ..... | 0.84 | 8.5 | Hillsboro | 54 | 14 | 32.8 | 0.60 | 8.0 |
| Lynch *† ¹ | 62 | -15 | 20.0 | 0.07 | 0.8 | Tecoma * ¹ | 35 | -5 | 14.5 | 0.55 | 6.0 | Las Vegas Hot Springs | 57 | 0 | 27.7 | 1.88 | 9.5 |
| Lyons | ..... | ..... | ..... | 0.92 | 7.5 | Toano * ¹ | 48 | -8 | 17.7 | 0.64 | 7.0 | Lordsburg * ¹ | 71 | 8 | 32.8 | 0.66 | 2.5 |
| McCook | ..... | ..... | ..... | 0.15 | 1.5 | Tuscarora | 39 | -6 | 19.8 | 0.20 | 2.0 | Los Lunas | 50 | -4 | 26.3 | 0.87 | 5.0 |
| McCool | ..... | ..... | ..... | 0.55 | 2.0 | Tybo | 50 | -2 | 23.4 | 0.24 | 4.0 | Lower Penasco | 66 | 3 | 34.6 | 2.40 | 15.1 |
| Madison | 58 | -13 | 21.4 | 0.16 | 3.0 | Verdi * ¹ | 56 | 10 | 38.7 | 0.36 | 0.7 | Mesilla Park | 68 | 10 | 35.5 | 1.25 | 5.1 |
| Madrid * ⁵ | 55 | -15 | 24.4 | 0.20 | 2.0 | Wadsworth * ¹ | 60 | -4 | 23.8 | 0.09 | 0.5 | Monero | 45 | -20 | 16.6 | 0.76 | 10.0 |
| Marquette | ..... | ..... | ..... | 0.32 | 3.0 | Wells | 46 | -13 | 18.4 | 0.62 | 6.6 | Puerto de Luna | 65</td | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|-------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| <i>New York—Cont'd.</i> | | | | | | | | | | | | | | | | | |
| Bouckville | 50 | -7 | 23.2 | 8.25 | 22.0 | Fairbluff† | 0 | 0 | 0 | Ins. | 7.8 | Binola | 0 | 0 | 0 | Ins. | 12.5 |
| Boys Corner | | | | | | Fayetteville | 71 | 11 | 44.8 | 2.86 | T. | Bloomingburg | 60 | -4 | 29.3 | 2.82 | 6.0 |
| Brentwood | 57 | 1 | 32.2 | 3.25 | ..... | Flatrock | 65 | 2 | 37.8 | 5.11 | | Bowling Green | 55 | -2 | 26.8 | 1.57 | 6.6 |
| Canajoharie | 55 | -16 | 27.6 | 1.42 | ..... | Greensboro† | 66 | 13 | 40.0 | 2.67 | | Bucyrus | 55 | -10 | 28.8 | 1.25 | 8.5 |
| Canton | 48 | -15 | 22.9 | 2.52 | 15.2 | Henderson† | 67 | 13 | 41.6 | 2.39 | | Cambridge | 60 | -13 | 28.2 | 2.73 | 2.0 |
| Carmel | 53 | 2 | 29.0 | 3.31 | 7.5 | Hendersonville | 67 | 4 | 39.0 | 3.95 | | Camp Dennison | 59 | -11 | 30.3 | 2.94 | 2.3 |
| Carvers Falls | 46 | -15 | 24.9 | 1.59 | 3.0 | Horse Cove | 63 | 8 | 38.6 | 5.31 | 0.3 | Canal Dover | 59 | -3 | 28.8 | 3.18 | 4.5 |
| Catskill | 51 | -2 | 29.6 | 2.24 | 10.0 | Lenoir†† | 59 | 7 | 38.8 | 4.52 | | Canalton | 59 | 3 | 29.8 | 2.80 | 3.9 |
| Cedarhill | 54 | -6 | 28.9 | 0.91 | 4.2 | Linville† | 54 | -4 | 31.8 | 3.41 | 4.0 | Carrolton | 59 | 0 | 28.2 | 3.85 | 12.0 |
| Cherry Creek | | | | | | Littleton† | 66 | 12 | 40.5 | 2.71 | | Cedarville | | | | 2.55 | 6.5 |
| Cherry Valley | | | | | | Louisburg† | 67 | 9 | 41.9 | 2.00 | | Celina | 54 | -5 | 26.5 | 1.85 | 8.0 |
| Cooperstown† | 51 | -7 | 25.2 | 2.44 | 14.5 | Lumbertont† | 71 | 18 | 44.4 | 2.71 | | Circleville | 62 | 31.6 | 3.40 | 7.0 | |
| Cortland | 53 | -2 | 26.6 | 2.61 | 18.5 | Mana | | | | | | Clarksville | 67 | -4 | 30.5 | 3.27 | 6.0 |
| Dekab Junction | | | | | | Marion | 67 | 8 | 39.8 | 5.54 | | Cleveland a. | 55 | 3 | 39.8 | 2.77 | 13.5 |
| Dryden | 54 | -2 | 26.6 | 3.02 | ..... | Marshall | 63 | 2 | 37.2 | 1.34 | 1.5 | Cleveland b | 56 | 5 | 28.0 | | |
| Easton | | | | | | Mocksville | 70 | 8 | 42.6 | 3.11 | | Coatlon | 64 | -15 | 30.0 | 2.98 | 11.0 |
| Ellenburg Depot† | 50 | -10 | 23.7 | 2.51 | 19.5 | Moncure† | 69 | 11 | 44.2 | 1.33 | | Colebrook | 53 | -1 | 26.6 | 1.69 | 8.5 |
| Elmira | 58 | 0 | 30.2 | 2.25 | ..... | Monroet | 70 | 6 | 43.0 | 1.11 | | Dayton a | 59 | -15 | 29.6 | 3.05 | 10.5 |
| Fayetteville | | | | | | Morganton | 72 | 7 | 42.5 | 4.65 | | Dayton b | | | | 1.87 | 6.6 |
| Fleming | 53 | 3 | 28.4 | 1.80 | 18.0 | Mountairy | | | | | | Defiance | | | | | |
| Fort Niagara | 51 | 7 | 29.4 | 1.47 | 14.0 | Mount Pleasant | 69 | 8 | 42.1 | 2.13 | | Delaware | | | | | |
| Franklinville | 52 | -4 | 24.9 | 2.64 | 20.2 | Murphy† | | | | | | Demos | 60 | -6 | 27.8 | 1.53 | 6.0 |
| Fulton | | | | | | Newbern | 75 | 21 | 47.4 | 1.48 | | Dupont | 53 | -4 | 26.9 | 2.80 | 9.0 |
| Gloverville* | 41 | -10 | 23.9 | 2.62 | 14.3 | Oakridge† | 65 | 13 | 41.2 | 3.09 | | Elyria | 56 | 2 | 28.0 | 2.39 | 13.4 |
| Greenwich | 50 | -17 | 25.2 | 1.83 | 4.0 | Pantego | | | | | | Findlay | 57 | 2 | 27.6 | 2.51 | 8.5 |
| Haskinsville | | | | | | Patterson† | 63 | 10 | 35.6 | 4.00 | | Frankfort | 63 | -5 | 30.9 | 2.85 | 6.5 |
| Hemlock Lake | 53 | 5 | 28.7 | 2.24 | ..... | Pittsburgh | 69 | 5 | 41.8 | 1.75 | | Garretttsville | 57 | 0 | 27.5 | 3.19 | 6.8 |
| Honeymeade Brook | 54 | -7 | 27.8 | 2.14 | 4.5 | Rockingham† | | | | | | Granville | 59 | -9 | 28.4 | 3.58 | 6.8 |
| Humphrey† | 51 | 5 | 26.3 | 2.82 | 32.4 | Salem† | 66 | 7 | 39.0 | 3.34 | | Gratiot | 57 | -8 | 28.8 | 2.78 | 6.1 |
| Ithaca | 52 | 3 | 27.8 | 2.22 | 18.8 | Salsbury† | 69 | 10 | 41.8 | 1.92 | | Greenfield | 60 | 3 | 32.6 | 2.95 | 3.0 |
| Jamestown | 50 | 7 | 27.2 | 4.84 | 38.0 | Saxont | 68 | 5 | 41.2 | 2.52 | | Greenhill | 56 | -7 | 27.1 | 3.04 | 9.0 |
| Keene Valley | 51 | -12 | 22.5 | 1.75 | 9.1 | Selma | 71 | 10 | 42.8 | 4.10 | | Greenville | 53 | -3 | 27.6 | 2.94 | 9.0 |
| Kings Station | | | | | | Settle | 63 | 6 | 38.0 | 2.72 | | Hackney | | | | 2.79 | 9.5 |
| Lake Placid | 47 | -18 | 20.6 | 2.70 | ..... | Sloan† | 75 | 18 | 46.5 | 3.31 | | Hanging Rock | 65 | -4 | 35.2 | 2.07 | 3.4 |
| Liberty | 55 | -1 | 25.1 | 2.57 | ..... | Soapstone Mount† | 65 | 5 | 39.2 | 1.81 | | Hedges | 54 | -10 | 26.5 | 2.50 | 12.5 |
| Little Falls | | | | | | Southern Pines a† | 70 | 15 | 46.5 | 1.82 | | Hillhouse | 62 | -15 | 31.1 | 3.32 | 5.0 |
| Lockport | 48 | 9 | 28.0 | 1.70 | 17.0 | Southern Pines b | 70 | 15 | 46.1 | 1.50 | | Hiram | 54 | 0 | 28.8 | 2.68 | 15.5 |
| Lowville | 48 | -24 | 23.0 | 4.54 | 50.0 | Southport† | 71 | 24 | 48.6 | 2.60 | | Hudson | 54 | 0 | 27.2 | | |
| Lyndonville | | | | | | Tarboro | 72 | 10 | 45.2 | 2.69 | | Jacksonboro | 53 | -4 | 29.0 | 2.85 | 10.0 |
| Lyons | 55 | 8 | 29.6 | 1.94 | 15.5 | Washwoods | | | | | | Kenton | 65 | 28.8 | 3.04 | 15.5 | |
| Madison Barracks | 54 | -28 | 28.0 | 2.40 | 24.0 | Waynesville† | 63 | 2 | 36.5 | 2.26 | | Killbuck | 58 | -1 | 28.4 | 2.30 | 5.0 |
| Middletown | 52 | 2 | 29.0 | 3.82 | 10.0 | Weldon† | 67 | 12 | 40.2 | 2.62 | | Lancaster | 55 | -4 | 29.2 | 3.76 | 4.0 |
| Mohonk Lake† | 51* | 3 | 28.7 | 1.60 | 15.5 | | | | | | | Leipsic | 54 | -5 | 27.0 | 2.58 | 8.8 |
| Mount Morris | | | | | | Amenia | 48 | -26 | 10.2 | 0.19 | 1.9 | Levering | 55 | -2 | 26.8 | 2.68 | 12.5 |
| Newark Valley | | | | | | Ashley | 45 | -27 | 11.3 | 0.30 | 3.0 | Logan | 66 | -14 | 32.2 | 2.68 | |
| New Lisbon | 53 | -14 | 23.7 | 1.48 | 8.5 | Berlin | 54 | -30 | 12.0 | 0.32 | 3.2 | Lordstown | 57 | -1 | 27.0 | 2.36 | 13.0 |
| Niagara Falls | | | | | | Bottineau | 92 | -32 | 6.0 | 0.50 | 5.0 | McArthur | 62 | -18 | 30.1 | 2.73 | 8.0 |
| North Hammond† | 50 | -8 | 25.6 | 1.37 | 16.6 | Buxton | 46 | -23 | 9.2 | T. | | McConnellsburg | 63 | -9 | 33.2 | 2.81 | 4.5 |
| North Lake | | | | | | Churchs Ferry | 44 | -23 | 10.4 | 0.14 | 1.4 | Mansfield | | | | 4.80 | 4.8 |
| Number Four† | 46 | -22 | 21.8 | 7.44 | 70.6 | Coal Harbor | 52 | -19 | 14.4 | 0.15 | 1.5 | Marietta | 64 | 0 | 33.4 | 2.21 | 8.0 |
| Nunda | 51 | -1 | 27.4 | 2.33 | 19.0 | Devil Lake | 44 | -23 | 8.3 | 0.20 | 2.0 | Marion | 57 | -1 | 28.6 | 1.65 | 9.8 |
| Ogdensburg | 55 | -15 | 23.8 | 1.05 | 4.5 | Dickinson | 45 | -16 | 16.6 | 0.80 | 8.0 | Medina | 57 | -1 | 28.1 | 3.76 | 16.0 |
| Oneonta† | 51* | -1 | 27.1 | 1.75 | ..... | Ellendale | 55 | -25 | 15.0 | 0.10 | 1.0 | Milfordton | 54 | 0 | 25.6 | 2.52 | 6.1 |
| Oxford | 50 | -10 | 25.8 | 3.35 | ..... | Fargo† | 47 | -30 | 8.0 | 0.22 | 2.2 | Milligan | 61 | -19 | 29.2 | 2.28 | 6.0 |
| Palermo | 50 | 0 | 26.2 | 2.25 | 16.5 | Forman | 55 | -30 | 12.8 | 0.87 | 0.3 | Millport | 56 | -9 | 26.4 | 3.20 | 11.0 |
| Penn Yan | 52 | 2 | 28.3 | 2.15 | 15.3 | Fort Berthold | 52 | -26 | 12.2 | 0.29 | 2.9 | Montpelier | 52 | -3 | 25.7 | 2.55 | 8.5 |
| Perry City | 51 | -3 | 25.5 | 2.35 | 17.5 | Fort Yates | | | | | | Napoleon | 55 | -5 | 27.8 | 3.06 | 7.5 |
| Phenix | | | | | | Fullerton | 58 | -29 | 12.4 | 0.45 | 4.4 | New Alexandria | 60 | 1 | 30.4 | 2.10 | 5.0 |
| Pine City | | | | | | Gallatin | 44 | -32 | 9.3 | 0.41 | 4.1 | New Berlin | 57 | -2 | 26.6 | 2.28 | 7.5 |
| Plattsburg Barracks† | 46 | -7 | 23.5 | 2.07 | ..... | Goetz | 48 | -18 | 16.5 | 0.11 | 1.1 | New Holland | 62 | -4 | 30.0 | 4.02 | 8.8 |
| Port Jervis | 56 | -3 | 27.4 | 2.27 | 4.5 | Grafton | 35 | -24 | 8.4 | 0.15 | 1.5 | New Paris | 56 | -8 | 27.2 | 2.91 | 14.8 |
| Poughkeepsie | 57 | 9 | 28.8 | 2.14 | ..... | Hamilton | 42 | -33 | 7.4 | 0.47 | 4.7 | New Waterford | 57 | 1 | 29.0 | 3.48 | 19.5 |
| Primrose | 57 | 5 | 30.6 | 2.63 | 1.0 | Kelso | 46 | -20 | 12.6 | ..... |  | North Lewisburg | 64 | -5 | 28.1 | 2.45 | 12.5 |
| Ridgeway | 52 | 6 | 27.8 | 2.34 | 19.8 | Laramore† | 44 | -25 | 11.0 | 0.05 | 0.5 | North Royalton | 54 | 0 | 27.7 | 2.63 | 15.0 |
| Romulus | 54 | 5 | 29.3 | 2.01 | 12.8 | McKinney | 44 | -25 | 8.8 | 0.05 | 0.5 | Norwalk | 56 | -1 | 28.2 | 1.69 | 10.5 |
| Rose | | | | | | Medora† | 55 | -14 | 18.0 | 0.25 | 2.5 | Oberlin | 58 | 0 | 28.6 | 2.89 | ..... |
| St. Johnsville | 51 | -12 | 25.8 | 2.56 | 8.1 | Melville | 51 | -23 | 12.6 | T. | | Ohio State University | 58 | -1 | 29.7 | 3.07 | 5.1 |
| Saranac Lake | 50 | -24 | 19.3 | 1.93 | 29.0 | Milton† | 35 | -31 | 5.1 | 0.30 | 3.0 | Orangeville | 56 | -1 | 26.2 | 2.20 | 7.5 |
| Saratogo Springs | 46 | -15 | 25.0 | 1.91 | 8.5 | Minnewaukon | 46 | -26 | 10.7 | 0.08 | 0.6 | Ottawa | 54 | -6 | 29.2 | 2.48 | 10.5 |
| Schenectady | 52 | -8 | 27.6 | 2.38 | ..... | Minot | 48 | -17 | 16.4 | 0.05 | ..... | Pataksala | 58 | -6 | 28.4 | 3.44 | 6.7 |
| Setauket† | 54 | 11 | 33.8 | 2.38 | 1.0 | Minto† | 43 | -26 | 10.9 | 0.00 | 0.5 | Perry | | | | 2.40 | 14.0 |
| Sherwood | | | | | | Napoleon† | 45 | -24 | 13.8 | 0.40 | 4.0 | Plattsburg | 56 | -4 | 28.2 | 2.97 | 14.0 |
| Skaneateles | | | | | | New England City | 37 | -20 | 12.8 | 0.20 | 2.0 | Pomeroy | 64 | -4 | 32.6 | 2.76 | 3.0 |
| South Canisteo | 52 | 1 | 25.9 | 2.62 | 20.9 | Oakdale | 50 | -16 | 22.4 | 0.12 | 1.2 | Portsmouth | 66 | 1 | 34.6 | 3.12 | 7.0 |
| Southeast Reservoir | | | | | | Portal | 42 | -22 | 13.8 | ..... |  | Richwood | 58 | -8 | 28.2 | 2.49 | 11.2 |
| South Kortright† | 56 | -4 | 25.2 | 1.87 | ..... | Power† | 52 | -25 | 12.4 | 0.02 | 0.2 | Ridgeville Corners | 53 | -4 | 26.4 | 2.14 | 7.0 |
| Straits Corners | 45 | -7 | 25.4 | 1.84 | 11.8 | Sheyenne | 48 | -23 | 13.2 | 0.11 | 1.1 | Ripley | 62 | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|---------------------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------|-------------------------------|----------|-------|--------------------------|-------------------------|-----------------------|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| <i>Ohio—Cont'd.</i> | | | | | | | | | | | | | | | | | |
| Vanceburg | 63 | — 6 | 33.0 | 3.47 | 9.0 | Inns. | 52 | 18 | 36.6 | 2.87 | 2.0 | Oregon—Cont'd. | 57 | 13 | 32.8 | 8.38 | Ins. |
| Vawert. | 57 | — 2 | 27.6 | 2.25 | 8.0 | | 52 | 19 | 36.6 | 3.56 | 3.0 | Springfield *1 | 57 | 8 | 28.8 | 1.97 | 4.5 |
| Vermillion | 58 | — 1 | 28.7 | 2.53 | 10.0 | | 57 | 7 | 32.6 | 1.14 | 3.2 | Stafford | 59 | 7 | 32.8 | 3.81 | 7.5 |
| Vickery | 55 | — 1 | 27.8 | 2.48 | 6.0 | | 60 | 25 | 44.0 | 4.85 | T. | The Dalles † | 65 | 3 | 28.8 | 8.04 | 16.0 |
| Walnut. | | | | | | | | | | | | Tillamook Rock | 54 | 4 | 28.2 | 2.68 | 16.0 |
| Warren. | 55 | — 1 | 28.4 | 4.37 | 17.4 | | | | | | | Toledo | 59 | 11 | 33.6 | 4.46 | 1.0 |
| Warsaw. | 59 | — 2 | 28.3 | 2.35 | 6.5 | | | | | | | Umatilla | 59 | 3 | 29.6 | 1.95 | 6.0 |
| Wauseon. | 54 | — 5 | 26.2 | 3.28 | 11.2 | | | | | | | Vale | 43 | — 6 | 22.0 | 0.45 | 8.5 |
| Waverly. | 65 | — 5 | 31.9 | 3.41 | 6.5 | | | | | | | Vernonia | 49 | 19 | 35.6 | 5.31 | 17.0 |
| Waynesville | 54 | — 6 | 27.2 | 3.16 | 13.5 | | | | | | | West Fork *1 | 53 | — 5 | 25.4 | 1.71 | 11.8 |
| Wellington. | 56 | — 3 | 28.3 | 2.82 | 9.0 | | | | | | | Weston | 14 | | 1.85 | 5.5 | Williams |
| Westerville. | 57 | — 2 | 30.1 | 2.34 | 6.2 | | | | | | | Williams | | | | | Penneyvania. |
| Willoughby. | | | | | | | | | | | | Altoona | 58 | 4 | 28.4 | 2.67 | |
| Wooster b. | 56 | 1 | 27.9 | 2.29 | 10.8 | | | | | | | Aqueduct | 61 | 6 | 32.4 | 2.12 | 4.6 |
| Youngstown. | 54 | 3 | 28.2 | | | | | | | | | Athens | 58 | — 2 | 28.0 | 1.61 | 5.2 |
| Zanesville. | | | | | | | | | | | | Beaver Dam | | | | | Bethlehem. |
| <i>Oklahoma.</i> | | | | | | | | | | | | Brookville † | | | | | Brookville † |
| Anadarko. | 76 | 4 | 37.2 | 2.30 | | | | | | | | Browers Lock | | | | | Cameron. |
| Arapaho †. | 71 | 3 | 32.9 | 2.09 | 2.5 | | | | | | | Carlisle | 50 | 5 | 29.8 | 2.92 | 5.0 |
| Burnett. | 71 | 5 | 34.8 | 2.53 | 0.2 | | | | | | | Cassandra | 59 | 0 | 28.6 | 2.61 | 16.5 |
| Clifton †. | 67 | 3 | 34.6 | 2.76 | 2.0 | | | | | | | Cedarrun | | | | | Cedarrun |
| Edmond. | | | | | | | | | | | | Centerhall † | 52 | 5 | 28.4 | 3.75 | 16.0 |
| Fort Sill. | 77 | 6 | 35.4 | 2.40 | | | | | | | | Chambersburg † | 60 | 29 | 29.7 | 3.23 | 4.0 |
| Guthrie. | 70 | 7 | 35.9 | 3.01 | 1.1 | | | | | | | Coatesville | 63 | 9 | 32.8 | 4.45 | 2.0 |
| Hennessey. | | | | | | | | | | | | Coopersburg | 63 | 13 | 33.6 | 3.78 | 11.0 |
| Hopeton. | 63 | 1 | 31.0 | 2.36 | 6.0 | | | | | | | Davis Island Dam † | | | | | Davis Island Dam † |
| Jefferson. | 70 | 3 | 33.4 | 2.84 | 5.0 | | | | | | | Derry Station | 58 | 4 | 29.6 | 2.83 | 10.5 |
| Kingfisher. | 69 | 5 | 35.0 | 2.52 | 3.0 | | | | | | | DoylesTown | | | | | DoylesTown |
| Mangum †. | 78 | 1 | 34.6 | 2.14 | 5.0 | | | | | | | Driftwood | | | | | Driftwood |
| Norman. | 68 | 0 | 31.7 | 2.38 | 0.5 | | | | | | | Duncannon | | | | | Duncannon |
| Pawhuska. | 68 | 5 | 35.0 | 5.20 | 7.0 | | | | | | | Dushore | 55 | — 5 | 26.4 | 2.37 | 11.8 |
| Perry. | 64 | 0 | 31.7 | 2.48 | 2.5 | | | | | | | Dyberry | 54 | — 11 | 24.8 | 2.68 | 11.0 |
| Prudence. | 64 | — 2 | 34.2 | 2.85 | 3.0 | | | | | | | East Bloomsburg | | | | | East Bloomsburg |
| Sac and Fox Agency. | 67 | 4 | 36.4 | 4.20 | 2.0 | | | | | | | East Mauch Chunk | 61 | 1 | 29.3 | 3.75 | 5.0 |
| Stillwater †. | 65 | 7 | 36.0 | 2.68 | 1.2 | | | | | | | Easton | 53 | 7 | 31.8 | 3.12 | 1.2 |
| Waikomis. | 68 | 5 | 35.2 | 2.53 | 2.5 | | | | | | | Ellwood Junction † | | | | | Ellwood Junction † |
| Winview †. | 58 | 4 | 34.4 | 3.05 | 1.5 | | | | | | | Emporium | 54 | — 2 | 28.4 | 2.66 | 8.5 |
| <i>Oregon.</i> | | | | | | | | | | | | Farrandsville | | | | | Farrandsville |
| Albany a. | 55 | 18 | 40.0 | 3.64 | 1.5 | | | | | | | Forks of Neshaminy *1 | 56 | 14 | 33.4° | 3.40 | |
| Albany b. | | | | | | | | | | | | Franklin | 56 | 5 | 27.8 | 1.81 | |
| Arlington. | 59 | 1 | 30.9 | 1.01 | 6.0 | | | | | | | Frederick | | | | | Frederick |
| Ashland b. | 62 | 20 | 38.7 | 1.16 | 1.9 | | | | | | | Freeport † | | | | | Freeport † |
| Aurora *1. | 55 | 17 | 37.0 | 3.57 | 2.0 | | | | | | | Girardville | | | | | Girardville |
| Aurora (near). | 55 | 17 | 37.7 | 3.87 | 0.8 | | | | | | | Hawley | | | | | Hawley |
| Bandon. | 64 | 28 | 47.2 | 4.32 | | | | | | | | Hews Island Dam | | | | | Hews Island Dam |
| Bay City †. | 57 | 25 | 42.2 | 12.00 | | | | | | | | Hilliardsbury | 62° | 0° | 30.6° | 2.94 | |
| Benliah. | 44 | — 7 | 20.4 | 0.30 | 2.8 | | | | | | | Huntingdon a † | 59 | 3 | 31.2 | 2.26 | 7.0 |
| Brownsville *1. | 52 | 18 | 38.8 | 2.95 | 0.5 | | | | | | | Huntingdon b | | | | | Huntingdon b |
| Burns. | 45 | | | | | | | | | | | Irvine | | | | | Irvine |
| Cascade Locks. | 53 | 15 | 34.2 | 8.16 | 6.0 | | | | | | | Johnstown † | 63 | 0 | 31.2 | 3.35 | 8.5 |
| Comstock *1. | 54 | 18 | 37.7 | 4.91 | 3.0 | | | | | | | Karthaus | | | | | Karthaus |
| Coquille River. | | | | | | | | | | | | Keating | | | | | Keating |
| Corvallis. | 54 | 18 | 37.6 | 3.62 | 8.0 | | | | | | | Kennett Square | 62 | 8 | 33.6 | 4.24 | 0.2 |
| Dayville †. | 55 | — 1 | 30.8 | 1.09 | 0.2 | | | | | | | Lansdale | 60 | 4 | 30.8 | 3.41 | 4.4 |
| Eugene. | | | | | | | | | | | | Lebanon | 55 | — 2 | 26.7 | 1.58 | 9.1 |
| Ella. | | | | | | | | | | | | Leroy | 61 | — 2 | 29.0 | 2.44 | 7.2 |
| Fairview. | 58 | 21 | 42.4 | 6.35 | 18.3 | | | | | | | Lewisburg | 50 | 2 | 29.7 | 3.98 | 12.5 |
| Falls City. | 58 | 17 | 36.4 | 7.11 | 5.6 | | | | | | | Lock Haven a † | 50 | 2 | 29.7 | 2.14 | 12.0 |
| Forestgrove. | 64 | 14 | 34.6 | 5.81 | 7.0 | | | | | | | Lock Haven b | | | | | Lock Haven b |
| Gardiner. | 56 | 30 | 43.6 | 6.08 | | | | | | | | Lock No. 4 † | | | | | Lock No. 4 † |
| Glenora. | 54 | 19 | 37.5 | 14.23 | 12.5 | | | | | | | Lycippus | 64 | 3 | 29.9 | 3.31 | 16.4 |
| Government Camp. | 47 | 10 | 30.2 | 12.10 | 58.0 | | | | | | | Mifflin | | | | | Mifflin |
| Grants Pass a †. | 56 | 15 | 37.1 | 2.26 | 8.0 | | | | | | | Nisbet | | | | | Nisbet |
| Happy Valley. | 55 | — 10 | 23.9 | 0.59 | 2.5 | | | | | | | Oil City † | | | | | Oil City † |
| Heppner. | 59 | — 6 | 27.5 | 1.47 | 10.4 | | | | | | | Ottsville | | | | | Ottsville |
| Hood River (near). | 53 | 7 | 30.8 | 4.17 | 6.0 | | | | | | | Parker † | | | | | Parker † |
| Jacksonville. | 55 | 19 | 36.6 | 1.64 | 2.5 | | | | | | | Philadelphia b. | 60 | 16 | 36.0 | 3.98 | 0.3 |
| Joseph. | 44 | — 3 | 19.4 | 0.80 | 8.0 | | | | | | | Point Pleasant | | | | | Point Pleasant |
| Junction City *1. | 72 | 20 | 39.8 | 1.98 | 3.5 | | | | | | | Quakertown | 59 | 9 | 31.4 | 4.47 | 3.0 |
| Kerby. | 56 | 7 | 37.2 | 4.04 | 6.0 | | | | | | | Reading 2 | | | | | Reading 2 |
| Klamath Falls. | 46 | 10 | 28.9 | 1.53 | 7.0 | | | | | | | Reading a | | | | | Reading a |
| Lafayette *1. | 48 | 12 | 38.5 | 2.91 | 3.0 | | | | | | | Renovo a | 49 | 3 | 29.0 | 2.97 | 8.8 |
| Lagrange. | 48 | — 3 | 26.3 | 1.31 | 4.0 | | | | | | | Ridgway † | | | | | Ridgway † |
| Lakeview †. | 46 | 0 | 26.1 | 1.50 | 12.0 | | | | | | | Saegeertown | 58 | 5 | 28.6 | 3.09 | 14.9 |
| Langlois. | 68 | 27 | 48.7 | 8.32 | | | | | | | | St. Marys | | | | | St. Marys |
| McMinnville. | 53 | 17 | 37.5 | 4.21 | 1.0 | | | | | | | Salem Corners. | 54 | 0 | 26.4 | 3.38 | 19.8 |
| Merlin *1. | 56 | 11 | 31.4 | 1.97 | 8.0 | | | | | | | Scranton | 57 | — 3 | 28.9 | 2.27 | 10.0 |
| Monmouth a *1. | 53 | 20 | 37.7 | 3.65 | 2.0 | | | | | | | Seisoltzville | | | | | Seisoltzville |
| Monmouth b. | 54 | 18 | 39.0 | 2.52 | 3.0 | | | | | | | Selinsgrove | 59 | 3 | 30.8 | 2.73 | 8.0 |
| Monroe. | 55 | 19 | 37.8 | 3.67 | 7.0 | | | | | | | Shawmont | | | | | Shawmont |
| Mount Angel †. | 58 | 18 | 37.0 | 4.40 | 0.5 | | | | | | | Shinglehouse. | 60 | 4 | 26.3 | 3.36 | 12.0 |
| Nehalem. | | | | | | | | | | | | Sinnamahoning. | | | | | Sinnamahoning. |
| Newberg. | 53 | 18 | 37.4 | 3.11 | 0.7 | | | | | | | Smethport. | 52 | — 1 | 25.8 | 2.10 | 10.0 |
| Newbridge. | | | | | | | | | | | | Smiths Corners. | | | | | Smiths Corners. |
| Newport. | 56 | 29 | 45.0 | 5.88 | | | | | | | | Somerset. | 48 | 0 | 25.4 | 4.79 | 28.8 |
| Pendleton. | 60 | — 5 | 28.8 | 0.89 | 3.0 | | | | | | | South Bethlehem | 62 | 6 | 27.4 | | |
| Placer. | | | | | | | | | | | | South Eaton. | 59 | — 1 | 29.6 | 2.02 | 5.0 |
| Prineville. | 70 | — 5 | 27.0 | 0.70 | | | | | | | | State College. | 56 | 7 | 28.0 | 3.07 | 15.4 |
| Riddleys *1. | 55 | 18 | 36.0 | 3.06 | 12.0 | | | | | | | Sunbury. | | </ | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|-----------------------------|-------------------------------|----------------|-------------------|--------------------------|-------------------------|----------------------|-------------------------------|-----------------|-------------------|--------------------------|-------------------------|-------------------|-------------------------------|-----------------|-------------------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| <i>South Dakota—Cont'd.</i> | | | | | | | | | | | | | | | | | |
| Nowlin | 60 | -18 | 20.6 | In. | In. | Cuero† | 76 | 10 | 40.0 | 2.60 | 4.0 | Chester | 45 | -17 | 21.2 | 1.28 | 14.0 |
| Oelrichs | 58 | -19 | 21.0 | 0.55 | 5.5 | Dallas† | 78 | 22 | 49.0 | 2.88 | 4.0 | Cornwall | 45 | -4 | 24.6 | 1.05 | 2.5 |
| Parker | 52 | -20 | 17.2 | 0.10 | 1.0 | Danevang† | 75 | 6 | 39.1 | 1.61 | 4.5 | Enosburg Falls | 55 | -26 | 22.9 | 4.23 | 40.0 |
| Plankinton† | 59 | -19 | 19.2 | 0.15 | 1.5 | Dublin† | 75 | 16 | 46.9 | 1.53 | 3.0 | Hartland | 43 | -24 | 21.8 | 1.75 | 8.7 |
| Redfield | 58 | -21 | 17.0 | T. | T. | Duval | 75 | 12 | ..... | 2.80 | 4.0 | Jacksonville | 45 | -24 | 18.6 | ..... | ..... |
| Rochford | 54 | -26 | 21.8 | 0.62 | 5.7 | Emory | 78 | 8 | 40.2 | 3.64 | 6.0 | Norwich | 44 | -25 | 21.4 | 1.54 | 5.5 |
| Shiloh | 50 | -20 | ..... | T. | T. | Estelle† | 78 | ..... | ..... | 2.34 | 2.4 | St. Johnsbury | 41 | -25 | 21.0 | 1.46 | 11.0 |
| Sioux Falls† | 48 | -22 | 15.1 | 0.10 | 1.0 | Forestburg | 78 | ..... | ..... | ..... | ..... | Vernon*† | 44 | -20 | 24.7 | 2.20 | 10.0 |
| Spearfish† | 59 | -11 | 27.2 | 0.40 | 11.5 | Fort Brown | 83 | 31 | 55.2 | 0.18 | ..... | Wells | 52 | -11 | 24.2 | 1.79 | 5.2 |
| Tyndall† | 53 | -15 | 21.2 | 0.05 | 0.5 | Fort McIntosh | 87 | 25 | 50.0 | 0.54 | ..... | Woodstock | 42 | -30 | 21.4 | 1.65 | 10.0 |
| Watertown | 47 | -25 | 12.9 | T. | T. | Fort Ringgold | 92 | 24 | 53.9 | T. | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Waukay | 52 | -23 | 12.8 | T. | T. | Fort Stockton | ..... | ..... | ..... | 0.92 | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wentworth† | 51 | -18 | 15.8 | 0.05 | 0.5 | Fredericksburg*† | 78* | 14 | 41.8 ¹ | 1.75 | 4.9 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wessington Springs | 58 | -18 | 17.6 | T. | T. | Fruitland | 78 | 5 | 39.3 | 2.21 | 4.2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Whiteswan | 63 | -12 | 23.9 | 0.17 | 1.7 | Gainesville | 68 | 4 | 40.3 | 3.33 | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wolsey | ..... | ..... | ..... | 0.16 | 1.5 | Georgetown*† | 72 ^c | 15 ^b | 41.8 ¹ | 1.90 | 3.0 | Birds Nest*† | 68 | 18 | 42.7 | 1.60 | 0.5 |
| <i>Tennessee.</i> | | | | | | Golindo | ..... | ..... | ..... | 2.55 | 3.0 | Blackburg | 68 | 1 | 33.3 | 2.68 | 1.5 |
| Andersonville | 68 | 4 | 35.2 | 2.35 | 6.0 | Grapevine† | 78 ^b | 5 ^b | 39.4 ^c | 2.37 | 6.0 | Buckingham† | 67 | 7 | 36.2 | 3.56 | 1.0 |
| Ashwood | 67 | 10 | 39.7 | 2.50 | 2.5 | Hale Center† | 68 | 9 | 36.0 | 2.22 | 6.5 | Burke's Garden | 74 | 0 | 31.0 | 2.60 | 8.0 |
| Benton (near)† | 68 | 10 | 39.0 | 2.76 | ..... | Hallettsville† | 76 | 22 | 48.0 | 2.13 | ..... | Callaville† | 66 | 9 | 40.8 | 1.98 | ..... |
| Bluff City† | 66 | ..... | ..... | 1.39 | 1.0 | Hewitt | ..... | ..... | ..... | 2.85 | 4.0 | Charlottesville | 62 | 15 | 39.0 | 5.70 | T. |
| Bolivar ^b | 66 | 6 | 38.2 | 2.78 | 0.5 | Honeygrove | ..... | ..... | ..... | 2.42 | 3.0 | Christiansburg | ..... | ..... | 2.54 | 1.1 | ..... |
| Bristol† | 60 | 0 | 33.2 | 1.44 | ..... | Houston† | 79 | 26 | 49.4 | 2.94 | T. | Clarksville | ..... | ..... | 1.65 | ..... | ..... |
| Byrdstown | 68 | -2 | 36.6 | 2.40 | 4.9 | Hulen | 77 | 25 | 49.9 | 2.86 | ..... | Clifton Forge | 49 | 10 | 32.6 | 2.33 | T. |
| Carthage† | 67 | 5 | 38.8 | 2.51 | ..... | Huntsville† | 75 | 18 | 45.4 | 3.47 | 1.5 | Colemans Falls | 69 | 9 | 40.9 | 4.09 | 2.0 |
| Charleson | ..... | ..... | ..... | 2.37 | 0.2 | Jacksonville | 76 | 14 | 45.0 | 4.08 | 4.0 | Columbia | 65 | 10 | 38.4 | 6.10 | T. |
| Clarksville | 64 | 4 | 37.0 | 3.98 | 1.3 | Jasper | 78 | 25 | 50.2 | 2.21 | 0.5 | Dale Enterprise† | 63 | 1 | 32.8 | 3.60 | 5.0 |
| Clinton | ..... | ..... | ..... | 1.98 | 1.0 | Junction | ..... | ..... | ..... | 1.44 | 4.5 | Dowell | 56 | 6 | 32.8 | 1.16 | T. |
| Decatur† | 65 | 10 | 38.8 | 2.86 | 1.0 | Kent | ..... | ..... | ..... | 1.51 | 8.0 | Dwale | ..... | ..... | 2.95 | 2.5 | ..... |
| Dover | 68 | 8 | 37.9 | 4.00 | 8.0 | Kerrville | 79 | 13 | 41.8 | 1.75 | 6.0 | Farmville | 70 | 10 | 39.5 | 3.35 | 0.7 |
| Elizabethhton† | 67 | 6 | 34.5 | 1.38 | 1.2 | Lampasas† | 68 | 10 | 39.3 | 1.98 | 4.0 | Fredericksburg† | 69 | 9 | 36.8 | 4.01 | 1.0 |
| Elk Valley | ..... | 2 | 27.8 | 4.6 | ..... | Llano*† ^b | 75 | 15 | 43.8 | 1.30 | 3.5 | Grahams Forge | 60 ^a | 4 ^c | 31.7 ^a | 1.58 | T. |
| Erasmus | 66 | 3 | 35.1 | 2.48 | 2.7 | Longview† | 74 | 13 | 42.8 | 2.55 | 6.0 | Hampton | 64 | 22 | 43.4 | 1.35 | T. |
| Florence† | 66 | 8 | 38.8 | 2.56 | 2.0 | Luling† | 76 | 18 | 46.4 | 1.68 | 2.5 | Hot Springs | 59 | ..... | 2.73 | 4.5 | ..... |
| Franklin | 66 | 9 | 38.2 | 2.84 | 3.0 | Mann | 72 ^c | 8 ^b | 42.8 ^c | 3.05 | 4.5 | Leesburg | 53 | 10 | 30.9 | 3.78 | 5.0 |
| Grace*† | 58 | 8 | 35.5 | 1.25 | 3.0 | Menardville | 75 | 7 | 39.0 | 2.13 | 3.0 | Lexington† | 60 | 5 | 34.9 | 2.90 | 1.5 |
| Greeneville† | 66 | 8 | 36.0 | 1.88 | 0.9 | Mount Blanco† | 73 | 1 | 35.0 | 1.74 | 7.0 | Manassast | 67 | 5 | 35.8 | 2.91 | 1.2 |
| Harriman | 63 | 10 | 38.0 | 2.58 | 0.5 | New Braunfels† | 73 | 20 | 46.6 | 1.53 | 3.6 | Miller School | 65 | 8 | 37.2 | 3.60 | 1.0 |
| Hohenwald† | 68 | 2 | 37.5 | 3.10 | 6.0 | Panter | ..... | ..... | ..... | 2.62 | 3.0 | Newport News | 66 | 19 | 43.4 | 1.43 | T. |
| Johnsonville | 65 | -3 | 37.0 | 3.27 | 7.6 | Point Isabel*† | 78 | 36 | 56.7 | T. | ..... | Petersburg† | 68 | 13 | 41.0 | 2.04 | T. |
| Jonesboro*† | 64 | 7 | 34.0 | 2.08 | 3.9 | Rheinland† | 76 | 0 | 38.0 | 1.54 | 4.5 | Quantico | 62 | 2 | 31.8 | 2.04 | ..... |
| Kingston† | ..... | ..... | ..... | 2.34 | T. | Rockport*† | 72 | 30 | 53.0 | ..... | ..... | Richmond (near)† | 68 | 10 | 39.5 | 3.25 | T. |
| Lafayette*† | 63 | 2 | 35.9 | 1.75 | 8.0 | Rock Springs | ..... | ..... | ..... | 2.08 | 8.8 | Rockymount† | 63 | 10 | 38.8 | 4.18 | T. |
| Liberty | 67 | 8 | 38.2 | 1.00 | ..... | Runge† | 81 | 21 | 51.0 | 1.21 | ..... | Salem† | 69 | 14 | 41.2 | 2.58 | 0.5 |
| Lynville† | 66 | 10 | 39.8 | 3.00 | 2.0 | Sabine Pass | 71 | 29 | 50.6 | 2.20 | ..... | Spears Ferry | 74 | 10 | 40.2 | 1.89 | T. |
| McKenzie† | 60 | 5 | 38.4 | 4.20 | 0.8 | San Antonio | 76 | 21 | 47.6 | 1.08 | 0.2 | Spottsville† | 66 | 10 | 37.1 | 4.20 | 1.0 |
| McMinnville | 69 | 4 | 38.4 | 1.25 | 1.0 | Sanderson | 83 | ..... | ..... | ..... | ..... | Staunton† | 65 | 6 | 37.3 | 3.00 | 5.0 |
| Madison | 67 | -1 | 36.4 | 2.60 | 4.7 | San Marcos† | 71 | 18 | 41.5 | 1.32 | ..... | Stephens City† | 67 | 5 | 34.8 | 3.53 | 3.0 |
| Maryville*† | 67 | 11 | 39.0 | 1.87 | 1.0 | Sherman | 71 | 11 | 42.6 | 2.50 | 3.0 | Sunbeam† | 68 | 10 | 42.2 | 2.29 | 2.0 |
| Newport† | 70 | 9 | 36.8 | 1.28 | ..... | Temple† | 75 | 13 | 41.6 | 2.20 | 8.0 | Tobaccoville | 70 | 8 | 40.4 | 4.19 | 1.0 |
| Nunnelly | 64 | 1 | 37.4 | 2.41 | 0.5 | Temple ^b | 76 | 10 | 43.6 | ..... | ..... | Warrenton | 57 | 13 | 36.6 | 5.26 | 3.0 |
| Oak Hill | 69 | -1 | 37.8 | 1.88 | 2.4 | Tulie | 67 | -2 | 30.4 | 1.70 | 10.5 | Warsaw† | 69 | 9 | 37.2 | 2.92 | T. |
| Palmetto† | 69 | 11 | 38.9 | 2.86 | 4.0 | Tyler | 73 | 12 | 43.7 | 3.30 | 5.0 | Westbrook | 66 | 14 | 39.1 | 2.20 | ..... |
| Perryear*† | 65 | 10 | 38.6 | 3.25 | T. | Victoria | ..... | ..... | ..... | 1.70 | ..... | Westpoint | 64 | 12 | 37.6 | 2.30 | ..... |
| Pope | 65 | 0 | 37.2 | 2.86 | 4.2 | Waco | 82 | 14 | 47.2 | 2.30 | 3.0 | Williamsburg | 67 | 7 | 34.7 | 2.04 | ..... |
| Rogersville† | 66 | 2 | 35.0 | 1.85 | 2.5 | Waxahachie† | 75 | 9 | 41.0 | 3.42 | 2.2 | Woodstock† | 65 | 5 | 34.0 | 2.61 | 5.0 |
| Rugby | 64 | -6 | 35.2 | 3.58 | 8.0 | Weatherford† | 75 | 9 | 39.7 | 2.82 | 2.8 | Wytheville† | 60 | 6 | 33.8 | 2.48 | 1.0 |
| St. Joseph | 66 | 7 | 38.9 | 1.52 | 2.0 | Wichita Falls† | ..... | ..... | ..... | 2.77 | 4.0 | Washington | 55 ^d | 24 ^d | 37.8 ^a | 10.92 | 1.4 |
| Savannah | 66 | 8 | 39.2 | 2.94 | ..... | Alpine | ..... | ..... | ..... | 0.63 | ..... | Aberdeen | ..... | ..... | 2.77 | 1.0 | ..... |
| Sewanee† | 67 | 6 | 37.6 | 2.30 | 1.2 | Blue Creek*† | 38 | -3 | 19.4 | 0.70 | 5.5 | Anacortes | ..... | ..... | 9.86 | 18.0 | ..... |
| Silverlake | 56 | -3 | 31.2 | 1.97 | 5.0 | Brigham | ..... | ..... | ..... | 1.08 | ..... | Ashford† | ..... | ..... | 8.86 | 18.0 | ..... |
| Springdale | 66 | -3 | 35.8 | 2.88 | 5.4 | Corrine | 49 | -11 | 20.8 | 0.65 | 6.5 | Blaine† | 54 | 7 | 32.0 | 2.76 | 2.0 |
| Springfield | 67 | -2 | 36.9 | 3.25 | 5.5 | Fillmore† | 57 | 0 | 25.6 | 0.76 | ..... | Bridgeport | 58 | -5 | 25.6 | 0.94 | 3.4 |
| Sylvia | 62 ^c | 7 ^c | 37.4 ^c | 8.05 | 7.5 | Fort Duchesne† | 35 | -17 | 10.4 | 0.10 | 1.0 | Cedar Lake | 54 | 26 | 38.2 | 6.31 | 10.5 |
| Tazewell | ..... | ..... | ..... | 2.14 | 6.5 | Frisco | 54 | 4 | 28.6 | 0.24 | 3.0 | Centerville† | 50 | -8 | 26.0 | 1.29 | 7.0 |
| Tellico Plains† | 70 | 10 | 39.2 | 1.74 | ..... | Giles | 47 | -11 | 18.4 | 0.25 | 4.5 | Clearwater | 54 | 22 | 36.3 | 18.05 | 6.2 |
| Tracy City | 64 | 1 | 36.2 | 2.94 | 1.5 | Heber | 46 | -15 | 18.0 | 1.10 | 11.0 | Coifax | 50 | -6 | 26.2 | 0.88 | 5.3 |
| Trenton | 65 | 6 | 38.0 | 3.80 | 6.5 | Huntsville | ..... | ..... | ..... | 1.0 | 8.0 | Coupeville† | 66 | 24 | 38.8 | 2.88 | 2.1 |
| Tullahoma† | 68 | 5 | 38.2 | 2.50 | 5.5 | Kelton*† | 45 | 0 | 14.9 | 0.20 | 2.0 | Dayton | 60 | -7 | 26.2 | 0.85 | 8.5 |
| Union City | 55 | -2 | 35.6 | 2.45 | 6.0 | Levan† | 44 | -7 | 21.2 | 1.36 | 13.6 | Ellensburg | 48 | -5 | 23.8 | 0.54 | 5.4 |
| Waynesboro | 65 | 4 | 37.8 | 2.85 | 3.0 | Logan | 39 | -5 | 16.5 | 0.48 | ..... | Ellensburg (near) | 40 | -4 | 22.4 | 0.60 | 5.0 |
| Wildersville | 64 | 8 | 38.2 | 2.92 | 5.2 | Manti | 60 | -9 | 23.1 | 0.45 | 4.5 | Fort Simcoe† | 60 | -2 | 26.6 | 1.50 | 15.0 |
| Yukon | 71 | 8 | 39.9 | | | | | | | | | | | | | | |

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

| Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations | Temperature. (Fahrenheit.) | | | Precipita- tion. | | Stations. | Temperature. (Fahrenheit.) | | | Precipita- tion. | |
|------------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|----------------------------|-------------------------------|----------|-------|--------------------------|-------------------------|---|-------------------------------|----------|-------|--------------------------|-------------------------|
| | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. | | Maximum. | Minimum. | Mean. | Rain and melted snow. | Total depth of snow. |
| <i>Washington—Cont'd.</i> | | | | | | <i>Wisconsin—Cont'd.</i> | | | | | | <i>Idaho.</i> | | | | | |
| Pullman f. | 48 | 0 | 25.4 | 1.06 | 3.5 | Menasha | ○ | ○ | ○ | Ins. | Ins. | Murray | ○ | ○ | ○ | Ins. | Ins. |
| Rosalia † | 49 | -9 | 24.2 | 0.80 | 5.4 | Neillsville | 38 | -22 | 11.7 | 0.43 | 5.5 | Iowa | ..... | ..... | ..... | 4.75 | 38.0 |
| Sedro † | 55 | 18 | 35.9 | 4.76 | 3.0 | New Holstein | 34 | -10 | 10.2 | 0.10 | 1.0 | Mount Pleasant | 71 | -1 | 37.4 | ..... | ..... |
| Silvana | 56 | 17 | 35.8 | 3.91 | 7.2 | New London | 42 | -16 | 15.6 | 0.46 | 6.0 | Wapello | ..... | ..... | ..... | 1.28 | 5.5 |
| Snohomish † | 57 | 19 | 38.4 | 3.06 | 12.0 | North Crandon | 38 | -27 | 15.0 | 0.28 | 2.8 | Kansas | ..... | ..... | ..... | ..... | ..... |
| Snoqualmie | ..... | ..... | ..... | 5.78 | ..... | Oconto | 45 | -12 | 18.8 | 0.40 | 4.0 | Hays | 77 | -2 | 37.2 | 1.10 | 11.0 |
| Southbend | 55 | 23 | 41.3 | 9.10 | T. | Osceola † | 40 | -40 | 7.9 | 0.07 | 0.7 | Hoxie | 67 | -2 | 35.9 | 0.85 | 8.5 |
| Stampede | 54 | 14 | 29.2 | 4.30 | 43.0 | Oshkosh | 43 | -14 | 17.1 | 0.46 | ..... | Ulysses | ..... | ..... | ..... | 0.80 | 8.0 |
| Sunnyside † | 62 | -6 | 27.2 | 0.06 | 0.5 | Pepin | 36 | -32 | 11.6 | 0.18 | 2.0 | Massachusetts | ..... | ..... | ..... | ..... | ..... |
| Tunnel | 45 | 10 | 26.7 | 9.20 | 61.0 | Pine River | 46 | -19 | 16.8 | 0.58 | 5.6 | Lynn (a) | 60 | 22 | 40.0 | 3.09 | ..... |
| Union City † | 55 | 22 | 37.7 | 9.24 | 12.0 | Portage † | 43 | -15 | 16.2 | 0.15 | 2.0 | Minnesota | ..... | ..... | ..... | ..... | ..... |
| Usk | 45 | -13 | 18.2 | 1.44 | 11.0 | Port Washington | 53 | -10 | 21.2 | 1.30 | 1.0 | Fergus Falls | 60 | -18 | 24.9 | 0.51 | 8.6 |
| Vancouver | 54 | 18 | 36.6 | 4.49 | T. | Prairie du Chien | 60 | -13 | 23.4 | 0.40 | 0.5 | Lutsen b | 55 | -4 | 28.3 | 1.40 | ..... |
| Vashon | 57 | 27 | 39.7 | 4.21 | 7.0 | Prentice *† | 41 | -26 | 10.8 | 0.11 | 1.1 | Zumbrota ¹ | 62* | -17 | 29.2 | ..... | ..... |
| Waterville | 48 | -5 | 19.6 | 1.00 | 10.0 | Racine | 51 | 0 | 23.0 | 0.53 | ..... | Missouri | ..... | ..... | ..... | ..... | ..... |
| <i>West Virginia.</i> | | | | | | Sharon | 48 | -10 | 17.2 | 0.46 | 1.0 | Birchtree | 77 | 10 | 40.4 | 2.23 | T. |
| Beckley | 64 | -9 | 29.8 | 4.13 | 25.0 | Shawano | 40 | -17 | 16.3 | 0.38 | 4.0 | Conception | 70* | 1 | 39.0* | 0.85 | 8.5 |
| Beverly † | 61 | -3 | 33.1 | 2.25 | 3.2 | Spooner | 38 | -32 | 9.6 | 0.00 | 0.0 | Unionville | 77 | 1 | 40.6 | 0.40 | 4.0 |
| Bluefield | 61 | 0 | 35.1 | 3.45 | 17.5 | Stevens Point † | 41 | -22 | 13.8 | 0.50 | 5.0 | Nevada | ..... | ..... | ..... | ..... | ..... |
| Buckhannon a † | 63 | -12 | 31.4 | ..... | ..... | Valley Junction † | 40 | -22 | 13.6 | 0.14 | 1.5 | Tuscarora | ..... | ..... | ..... | 3.10 | 26.9 |
| Buckhannon b | 63 | 1 | 31.6 | 2.55 | 4.0 | Viroqua | 39 | -20 | 15.8 | 0.97 | 2.8 | New York | ..... | ..... | ..... | ..... | ..... |
| Burlington † | 65 | 1 | 31.6 | 2.56 | 2.0 | Watertown † | 44 | -12 | 16.0 | 0.77 | 4.0 | Ogdensburg | ..... | ..... | ..... | 0.94 | 5.8 |
| Charleston † | 66 | -12 | 32.8 | 2.37 | 10.5 | Waukesha † | 46 | -10 | 18.6 | 0.50 | 1.8 | Ohio | ..... | ..... | ..... | ..... | ..... |
| Dayton † | 66 | 0 | 35.1 | 2.15 | 4.0 | Waupaca | 40 | -19 | 15.8 | 0.59 | 4.8 | Bellefontaine | 65 | 8 | 36.9 | ..... | ..... |
| Eastbank | 64 | 1 | 35.0 | 2.60 | 8.7 | Wausau † | 38 | -19 | 14.0 | 0.39 | 4.0 | Cedarville | ..... | ..... | ..... | 2.23 | 1.5 |
| Elkhorn † | 64 | 2.70 | 11.2 | ..... | ..... | Wausaukee | 39 | -15 | 17.3 | 0.30 | 3.0 | Hanging Rock | 73 | 14 | 42.0 | ..... | ..... |
| Fairmont † | 68 | -10 | 31.7 | 3.81 | 8.0 | Westfield † | 43 | -18 | 16.1 | 0.41 | 2.1 | Texas | ..... | ..... | ..... | ..... | ..... |
| Glenville † | 65 | -4 | 33.8 | 2.48 | 10.5 | Whitehall | 40 | -23 | 11.6 | 0.30 | 3.0 | Anna | ..... | ..... | ..... | 1.08 | 1.0 |
| Grafton † | 61 | -2 | 32.7 | 2.63 | 4.0 | <i>Wyoming.</i> | ..... | ..... | ..... | ..... | ..... | Washington | ..... | ..... | ..... | ..... | ..... |
| Green Sulphur | ..... | ..... | ..... | 3.69 | 4.8 | Basin | 47 | -23 | 11.8 | 0.10 | 2.5 | Tunnel | ..... | ..... | ..... | 8.40 | 84.0 |
| Harpers Ferry | ..... | ..... | ..... | 1.94 | 3.0 | Big Horn Ranch | 51 | -20 | 23.3 | 0.20 | 3.0 | Vashon | 55 | 31 | 43.8 | 6.25 | T. |
| Hinton a † | 57 | 4 | 33.2 | ..... | 2.5 | Big Piney | 38 | -30 | 5.8 | 0.00 | ..... | Wisconsin | ..... | ..... | ..... | ..... | ..... |
| Huntington | 69 | 0 | 33.5 | 2.46 | 6.5 | Binford | 48 | -26 | 17.9 | 0.23 | 4.9 | Dodgeville | 65 | -5 | 31.2 | ..... | ..... |
| Kingwood | 64 | -3 | 30.4 | 2.78 | ..... | Carbon | 60 | -16 | 27.0 | 0.35 | 4.6 | Mexico | ..... | ..... | ..... | ..... | ..... |
| Marlington | 55 | 1 | 32.6 | 3.71 | 11.7 | Dome Lake | 45 | -22 | 14.1 | 0.23 | 2.3 | Coatzacoalcos ² | 76.7 | ..... | ..... | ..... | ..... |
| Martinsburg † | 63 | -1 | 32.6 | 3.50 | 7.0 | Evanston | 42 | -13 | 11.9 | 0.50 | 5.0 | Tampico ² | 68.0 | ..... | ..... | ..... | ..... |
| New Cumberland † | 61 | 4 | 33.0 | 1.03 | ..... | Fort Laramie | 57 | -19 | 22.4 | 0.25 | 5.0 | Vera Cruz ² | 72.2 | ..... | ..... | ..... | ..... |
| New Martinsville | 65 | -4 | 34.0 | 2.79 | 6.5 | Fort Washakie | 58 | -23 | 18.2 | 0.29 | 2.9 | ..... | ..... | ..... | ..... | ..... | ..... |
| Nuttallburg | 65 | -9 | 34.2 | ..... | ..... | Fort Yellowstone | 37 | -15 | 17.2 | 0.67 | 6.7 | ..... | ..... | ..... | ..... | ..... | ..... |
| Oldfields † | 67 | 3 | 31.5 | 2.74 | 8.2 | Hecla | 60 | -16 | 27.0 | 0.35 | 4.6 | ..... | ..... | ..... | ..... | ..... | ..... |
| Philipps a | 66 | -8 | 33.5 | 2.49 | 10.0 | Laramie | 45 | -22 | 14.1 | 0.23 | 2.3 | ..... | ..... | ..... | ..... | ..... | ..... |
| Point Pleasant † | 65 | -5 | 33.8 | 2.57 | 4.0 | Lovell | 45 | -23 | 11.0 | 0.03 | 0.3 | ..... | ..... | ..... | ..... | ..... | ..... |
| Powellton | 64 | 1 | 33.0 | 2.99 | 6.5 | Lusk | 55 | -20 | 21.4 | 0.78 | 7.8 | ..... | ..... | ..... | ..... | ..... | ..... |
| Romney | 63 | 6 | 33.2 | 2.69 | 3.0 | Rawlins | 40 | -20 | 14.0 | 0.80 | 8.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| Rowlesburg † | 65 | 8 | 33.0 | 2.98 | 29.8 | Rock Springs | 50 | -18 | 16.0 | 0.32 | 3.2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Upper Tract | 65 | 3 | 33.0 | 1.99 | 6.5 | Sheridan | 60 | -22 | 19.8 | 1.35 | 13.5 | ..... | ..... | ..... | ..... | ..... | ..... |
| Weston a | 65 | 3 | 31.3 | 11.8 | ..... | Sherman | 42 | -13 | 11.9 | 0.50 | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| Weston b | 66 | -9 | 33.2 | ..... | 11.0 | Thayne | 42 | -25 | 11.8 | 0.85 | 8.5 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wheeling † | 66 | 4 | 33.8 | 3.08 | 6.5 | Wamsutter | 45 | -26 | 11.8 | 0.20 | 2.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wheeling b | 66 | 4 | 33.8 | 2.68 | 7.0 | Wheatland | 60 | -15 | 27.6 | 0.70 | 7.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| <i>Wisconsin.</i> | | | | | | <i>Mexico.</i> | | | | | | <i>Corrections.</i> | | | | | |
| Amherst | 40 | -18 | 14.7 | 0.81 | 5.0 | Cludad P. Diaz | 77 | 25 | 48.5 | 0.96 | ..... | New Mexico, Fort Bayard, November, 1898, make mean temperature 44.3 instead of 43.6. | | | | | |
| Barren | 40 | -30 | ..... | T. | T. | Coatzacoalcos ² | 71 | 31 | 56.2 | T. | ..... | Chart X, December, 1898, in Maryland, for 87 read 95. | | | | | |
| Bayfield | 40 | -20 | 16.6 | 1.75 | 17.5 | Leon de Aldamas | 73 | 31 | 56.2 | T. | ..... | Page 542 under head of observations at Circle City, Alaska, in heading of absolute minimum temperature, 1887 read 1897. | | | | | |
| Beloit | 47 | -8 | 19.8 | 0.23 | 2.2 | Puebla | 73 | 33 | 62.3 | 0.04 | ..... |  |  |  |  |  |  |
| Brothead | 48 | -9 | 18.5 | 0.37 | 1.0 | Tampico ² | 80 | 50 | 64.1 | 0.22 | ..... |  |  |  |  |  |  |
| Butternut | 42 | -31 | 13.4 | 0.25 | 2.5 | Topolobampo ¹ | 80 | 50 | 64.1 | 0.22 | ..... |  |  |  |  |  |  |
| Chilton | 43 | -13 | 17.2 | 0.30 | 1.5 | Vera Cruz ² | 80 | 68.9 | ..... | ..... | ..... |  |  |  |  |  |  |
| Citypoint | 39 | -19 | 14.4 | 0.10 | 1.0 | New Brunswick | 44 | -7 | 24.5 | 3.68 | 27.7 | | | | | | |
| Delavan | 38 | -10 | 16.9 | 0.80 | 3.5 | St. John | 81 | 66 | 73.0 | ..... | ..... |  |  |  |  |  |  |
| Dodgeville | 46 | -16 | 15.6 | 0.39 | 2.5 | Porto Rico | 84 | 64 | 75.2 | 9.27 | ..... |  |  |  |  |  |  |
| Easton | 47 | -20 | 13.8 | 0.46 | 2.6 | Guayama ¹ | 86 | 66 | 75.3 | ..... | ..... |  |  |  |  |  |  |
| Eau Claire | 36 | -23 | 11.5 | 0.27 | 2.5 | Luquillo | 86 | 66 | 75.3 | ..... | ..... |  |  |  |  |  |  |
| Florence † | 37 | -21 | 15.6 | 0.15 | 1.5 | Ponce ¹ | 86 | 66 | 74.4 | ..... | ..... |  |  |  |  |  |  |
| Fond du Lac | 42 | -12 | 15.9 | 0.51 | 3.7 | Rio Piedras | 86 | 66 | 74.4 | ..... | ..... |  |  |  |  |  |  |
| Grand River Locks | ..... | ..... | ..... | 0.39 | 4.0 | | | | | | | | | | | | |
| Grantsburg† | 41 | -36 | 12.3 | T. | T. | | | | | | | | | | | | |
| Gratiot | 48 | -12 | 15.4 | T. | T. | | | | | | | | | | | | |
| Hartford | 46 | -10 | 8.8 | 0.70 | 3.0 | | | | | | | | | | | | |
| Harvey | 43 | -11 | 17.8 | 0.45 | 3.4 | | | | | | | | | | | | |
| Hayward | 40 | -35 | 12.9 | 0.06 | 0.6 | | | | | | | | | | | | |
| Heafford Junction | 36 | -24 | 13.5 | 0.10 | 1.0 | | | | | | | | | | | | |
| Hillsboro | 44 | -18 | 15.7 | 0.45 | 1.5 | | | | | | | | | | | | |
| Knapp | 41 | -25 | 11.6 | T. | T. | | | | | | | | | | | | |
| Koepnick ^a † | 44 | -18 | 14.5 | 0.30 | 3.0 | | | | | | | | | | | | |
| Lancaster ^a † | 44 | -15 | 15.4 | 0.44 | 4.0 | | | | | | | | | | | | |
| Lincoln | 40 | -8 | 20.4 | 0.70 | 7.0 | | | | | | | | | | | | |
| Madison ^a † | 42 | -12 | 17.6 | 0.21 | 0.9 | | | | | | | | | | | | |
| Manitowoc ^a † | 44 | -7 | 19.2 | 0.62 | 5.5 | | | | | | | | | | | | |
| Meadow Valley ^a † | 38 | -24 | 12.6 | 0.28 | 3.0 | | | | | | | | | | | | |

Table No. III will be found on page 591.

TABLE IV.—*Mean temperature for each hour of seventy-fifth meridian time, December, 1898.*

| Stations. | 1 a. m. | 2 a. m. | 3 a. m. | 4 a. m. | 5 a. m. | 6 a. m. | 7 a. m. | 8 a. m. | 9 a. m. | 10 a. m. | Noon. | 1 p. m. | 2 p. m. | 3 p. m. | 4 p. m. | 5 p. m. | 6 p. m. | 7 p. m. | 8 p. m. | 9 p. m. | 10 p. m. | 11 p. m. | Midn't. | Mean. | |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|---------|-------|------|
| Bismarck, N. Dak.... | 14.8 | 14.4 | 14.1 | 13.9 | 13.5 | 12.5 | 12.1 | 12.1 | 11.5 | 11.3 | 13.6 | 16.8 | 19.6 | 21.8 | 23.7 | 24.6 | 24.3 | 22.2 | 19.7 | 18.1 | 17.2 | 16.1 | 15.8 | 15.0 | 16.6 |
| Boston, Mass..... | 30.5 | 30.1 | 30.0 | 29.7 | 29.4 | 28.8 | 28.6 | 29.6 | 30.4 | 31.9 | 33.8 | 35.1 | 35.7 | 36.2 | 35.9 | 35.0 | 34.0 | 33.0 | 32.3 | 31.9 | 31.5 | 31.3 | 30.7 | 30.5 | 31.9 |
| Buffalo, N. Y..... | 29.2 | 29.1 | 28.8 | 28.5 | 28.3 | 28.1 | 28.3 | 28.5 | 28.9 | 29.2 | 29.6 | 30.0 | 30.6 | 30.8 | 30.5 | 30.3 | 30.0 | 29.9 | 30.0 | 29.6 | 29.8 | 29.7 | 29.4 | 29.4 | 29.4 |
| Chicago, Ill..... | 23.7 | 23.2 | 22.6 | 22.2 | 21.8 | 21.1 | 20.7 | 20.9 | 20.5 | 21.5 | 22.8 | 24.8 | 25.7 | 26.7 | 27.6 | 28.2 | 26.9 | 26.1 | 25.5 | 24.9 | 24.4 | 23.7 | 24.2 | 24.2 | 24.2 |
| Cincinnati, Ohio.... | 31.0 | 30.4 | 29.8 | 29.6 | 29.1 | 28.9 | 29.2 | 29.2 | 30.3 | 31.7 | 32.3 | 34.7 | 35.6 | 36.4 | 36.4 | 36.4 | 35.6 | 34.4 | 33.6 | 32.7 | 32.2 | 31.7 | 31.1 | 32.2 | 32.2 |
| Cleveland, Ohio.... | 28.1 | 27.8 | 27.6 | 27.5 | 27.3 | 27.1 | 27.1 | 27.3 | 27.6 | 27.6 | 29.2 | 30.5 | 31.0 | 31.5 | 31.5 | 31.1 | 30.4 | 29.9 | 29.7 | 29.4 | 28.8 | 28.0 | 29.0 | 29.0 | |
| Detroit, Mich..... | 26.4 | 26.1 | 26.0 | 25.8 | 25.5 | 25.5 | 25.3 | 25.4 | 25.5 | 26.0 | 26.7 | 27.4 | 28.2 | 28.7 | 29.0 | 29.0 | 28.7 | 28.5 | 27.9 | 27.4 | 26.8 | 26.4 | 26.2 | 26.9 | |
| Dodge, Kans..... | 24.2 | 23.0 | 22.3 | 21.7 | 21.4 | 20.6 | 20.0 | 19.7 | 19.1 | 20.3 | 23.9 | 25.0 | 31.2 | 33.5 | 34.8 | 35.6 | 35.9 | 35.0 | 31.5 | 32.0 | 38.8 | 35.7 | 24.7 | 23.8 | 26.3 |
| Eastport, Me..... | 26.1 | 25.8 | 25.1 | 24.5 | 24.0 | 23.8 | 23.6 | 23.8 | 24.7 | 25.5 | 26.4 | 27.4 | 28.5 | 28.8 | 28.3 | 27.9 | 27.6 | 26.9 | 26.6 | 26.4 | 25.9 | 26.3 | 26.3 | 26.3 | |
| Galveston, Tex.... | 50.2 | 49.8 | 49.4 | 49.0 | 48.7 | 48.2 | 47.9 | 47.4 | 46.9 | 47.5 | 48.7 | 50.4 | 51.7 | 52.4 | 53.1 | 58.7 | 53.5 | 52.6 | 52.0 | 51.1 | 50.1 | 50.3 | 50.3 | 50.3 | |
| Havre, Mont..... | 21.9 | 21.5 | 20.8 | 20.9 | 20.8 | 19.6 | 19.5 | 19.9 | 19.4 | 18.8 | 19.2 | 21.0 | 23.2 | 25.6 | 26.6 | 27.5 | 27.7 | 26.6 | 24.4 | 22.8 | 21.5 | 21.0 | 21.0 | 21.3 | 22.2 |
| Kansas City, Mo.... | 26.5 | 25.8 | 25.1 | 24.7 | 24.4 | 24.0 | 23.5 | 23.6 | 23.2 | 23.8 | 25.5 | 27.6 | 29.3 | 30.9 | 32.0 | 32.5 | 31.5 | 30.5 | 29.7 | 29.0 | 28.2 | 27.3 | 26.5 | 27.4 | |
| Key West, Fla..... | 68.6 | 68.5 | 68.5 | 68.2 | 68.3 | 68.2 | 67.9 | 68.3 | 69.4 | 70.9 | 71.5 | 72.7 | 72.6 | 72.8 | 72.4 | 71.5 | 70.5 | 70.0 | 69.5 | 69.1 | 69.1 | 69.0 | 70.0 | 70.0 | |
| Memphis, Tenn.... | 40.0 | 39.2 | 38.4 | 37.7 | 37.1 | 36.6 | 36.4 | 36.6 | 36.7 | 38.2 | 40.6 | 41.8 | 43.2 | 44.5 | 45.7 | 46.1 | 45.9 | 45.2 | 43.9 | 43.5 | 42.2 | 41.6 | 40.8 | 40.9 | |
| Mt. Tamalpais, Cal.. | 45.8 | 45.7 | 45.1 | 44.7 | 44.2 | 44.5 | 44.0 | 43.8 | 43.6 | 43.5 | 44.1 | 44.7 | 45.4 | 46.0 | 47.1 | 47.9 | 48.0 | 47.6 | 46.9 | 46.2 | 46.3 | 45.9 | 45.7 | 45.4 | 45.5 |
| New Orleans, La.... | 48.8 | 48.2 | 47.5 | 47.2 | 46.7 | 46.6 | 46.3 | 46.3 | 46.5 | 47.4 | 49.2 | 51.1 | 53.1 | 54.3 | 55.7 | 56.2 | 56.1 | 54.9 | 53.5 | 52.0 | 50.8 | 49.7 | 48.9 | 50.3 | |
| New York, N. Y.... | 33.2 | 32.6 | 32.5 | 32.2 | 32.0 | 31.0 | 31.6 | 32.1 | 32.5 | 33.7 | 34.8 | 36.1 | 37.5 | 37.3 | 37.5 | 37.8 | 37.0 | 36.4 | 35.8 | 35.1 | 34.8 | 34.5 | 35.7 | | |
| Philadelphia, Pa.... | 34.6 | 34.3 | 33.8 | 33.5 | 33.1 | 32.7 | 32.5 | 32.6 | 33.1 | 34.7 | 36.1 | 37.5 | 38.7 | 39.6 | 39.9 | 39.5 | 38.7 | 38.8 | 37.0 | 36.4 | 35.8 | 34.3 | 33.9 | 33.0 | |
| Pittsburg, Pa..... | 31.7 | 31.3 | 31.1 | 31.2 | 30.9 | 30.5 | 30.9 | 31.3 | 32.5 | 33.6 | 34.9 | 35.6 | 36.8 | 36.7 | 36.4 | 35.5 | 35.5 | 35.5 | 33.5 | 32.6 | 32.6 | 31.8 | 31.3 | 33.0 | |
| Portland, Oreg.... | 36.5 | 36.4 | 36.5 | 36.3 | 36.3 | 35.8 | 35.6 | 35.7 | 35.1 | 34.5 | 35.1 | 35.6 | 36.8 | 38.1 | 39.2 | 39.9 | 39.9 | 39.7 | 38.9 | 38.1 | 37.6 | 37.1 | 36.8 | 36.6 | |
| St. Louis, Mo.... | 31.3 | 30.3 | 30.1 | 29.4 | 29.0 | 28.1 | 27.8 | 27.3 | 27.1 | 27.7 | 29.7 | 31.0 | 32.9 | 34.6 | 36.0 | 36.9 | 35.9 | 35.0 | 34.4 | 33.9 | 33.2 | 32.4 | 31.6 | 31.8 | |
| St. Paul, Minn.... | 12.5 | 11.6 | 10.5 | 10.1 | 9.5 | 9.4 | 9.2 | 9.3 | 9.3 | 9.8 | 11.0 | 13.2 | 15.3 | 17.0 | 18.1 | 19.0 | 19.1 | 18.3 | 17.1 | 15.9 | 15.1 | 14.3 | 14.2 | 13.7 | |
| Salt Lake City, Utah. | 23.6 | 23.2 | 22.3 | 21.8 | 21.0 | 20.4 | 20.6 | 21.4 | 20.0 | 19.7 | 21.3 | 24.6 | 26.9 | 29.0 | 30.5 | 31.3 | 31.0 | 30.5 | 28.5 | 27.5 | 26.2 | 25.4 | 24.8 | 24.9 | |
| San Diego, Cal.... | 53.9 | 53.5 | 53.8 | 52.7 | 52.4 | 52.2 | 51.5 | 51.2 | 51.1 | 52.7 | 53.9 | 59.2 | 61.0 | 62.4 | 63.0 | 62.8 | 61.9 | 57.7 | 56.4 | 54.8 | 54.4 | 56.1 | 56.1 | 56.1 | |
| San Francisco, Cal.. | 49.2 | 48.8 | 48.4 | 47.8 | 47.5 | 46.9 | 46.7 | 46.8 | 45.9 | 45.9 | 45.6 | 46.3 | 47.5 | 48.9 | 50.5 | 52.2 | 53.5 | 54.4 | 53.6 | 52.4 | 51.6 | 50.5 | 49.9 | 49.4 | |
| Savannah, Ga..... | 48.2 | 47.8 | 47.3 | 46.6 | 46.2 | 46.0 | 45.9 | 46.4 | 48.0 | 50.7 | 53.5 | 55.4 | 56.8 | 57.7 | 57.9 | 57.3 | 55.5 | 54.4 | 52.1 | 51.5 | 50.6 | 50.1 | 49.7 | 49.3 | 51.0 |
| Washington, D. C.... | 32.8 | 32.5 | 31.8 | 31.8 | 30.8 | 30.8 | 30.9 | 30.9 | 32.5 | 34.7 | 37.1 | 38.8 | 40.1 | 41.3 | 41.7 | 42.0 | 41.5 | 39.6 | 37.9 | 36.8 | 35.5 | 34.8 | 34.1 | 33.8 | 35.6 |
| <i>West Indies.</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basseterre, St. Kitts. | 74.2 | 74.7 | 74.5 | 74.6 | 74.5 | 74.6 | 75.5 | 77.1 | 78.1 | 79.6 | 81.0 | 81.3 | 81.1 | 80.7 | 80.2 | 78.7 | 77.4 | 76.6 | 76.1 | 76.0 | 75.7 | 75.7 | 75.2 | 77.0 | |
| Bridgetown, Bar.... | 74.0 | 73.6 | 73.4 | 73.4 | 73.4 | 73.4 | 74.8 | 77.6 | 79.9 | 81.2 | 82.6 | 82.5 | 82.1 | 81.5 | 80.7 | 79.7 | 77.4 | 76.4 | 75.6 | 75.1 | 74.8 | 74.7 | 74.1 | 77.3 | |
| Colon, U. S. C.... | 77.5 | 77.2 | 76.7 | 76.4 | 76.4 | 76.4 | 76.2 | 77.3 | 79.2 | 81.0 | 81.9 | 83.1 | 83.2 | 83.5 | 82.8 | 82.2 | 81.3 | 80.5 | 79.5 | 79.2 | 78.8 | 78.6 | 78.2 | 77.9 | |
| Kingston, Jamaica.. | 70.1 | 69.6 | 69.6 | 69.5 | 69.5 | 69.6 | 68.6 | 68.1 | 67.3 | 70.0 | 80.9 | 82.4 | 83.2 | 83.0 | 82.2 | 81.1 | 79.4 | 76.4 | 74.6 | 73.3 | 72.2 | 71.3 | 70.8 | 70.5 | |
| Port of Spain, Trin... | 72.3 | 72.2 | 71.9 | 71.7 | 71.8 | 73.1 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | |
| Roseau, Dominica.. | 73.5 | 73.3 | 73.2 | 73.4 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | |
| San Juan, P. R.... | 79.1 | 72.7 | 72.5 | 72.5 | 72.4 | 72.3 | 73.0 | 74.7 | 77.2 | 79.7 | 80.3 | 80.8 | 80.6 | 80.6 | 80.5 | 79.7 | 78.7 | 77.5 | 76.1 | 75.5 | 75.1 | 74.6 | 74.3 | 73.9 | |
| Santiago de Cuba* | 71.3 | 70.9 | 70.3 | 70.1 | 69.9 | 69.8 | 70.0 | 73.5 | 76.6 | 80.5 | 82.8 | 84.5 | 85.0 | 85.0 | 84.5 | 83.5 | 82.0 | 80.0 | 77.6 | 75.8 | 74.5 | 73.7 | 73.0 | 76.0 | |
| Santo Domingo, S. D. | 68.7 | 68.0 | 67.8 | 67.5 | 67.2 | 67.8 | 68.3 | 70.6 | 73.3 | 76.3 | 79.0 | 80.4 | 81.2 | 80.4 | 79.9 | 79.7 | 78.6 | 77.2 | 75.5 | 73.8 | 72.4 | 71.2 | 70.4 | 69.9 | |
| Willemstad, Curaçao | 76.0 | 75.6 | 75.4 | 75.2 | 75.2 | 75.7 | 77.4 | 78.7 | 80.1 | 81.3 | 82.0 | 81.6 | 81.7 | 81.4 | 80.6 | 79.6 | 78.1 | 77.4 | 76.9 | 76.8 | 76.2 | 76.1 | 78.0 | | |

TABLE V.—*Mean pressure for each hour of seventy-fifth meridian time, December, 1898.*

| Stations. | 1 a. m. | 2 a. m. | 3 a. m. | 4 a. m. | 5 a. m. | 6 a. m. | 7 a. m. | 8 a. m. | 9 a. m. | 10 a. m. | Noon. | 1 p. m. | 2 p. m. | 3 p. m. | 4 p. m. | 5 p. m. | 6 p. m. | 7 p. m. | 8 p. m. | 9 p. m. | 10 p. m. | 11 p. m. | Midn't. | Mean. | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|---------|-------|-------|
| Bismarck, N. Dak.... | 28.255 | .255 | .257 | .266 | .271 | .271 | .270 | .272 | .271 | .273 | .278 | .283 | .270 | .257 | .246 | .244 | .248 | .259 | .267 | .273 | .276 | .275 | .273 | .272 | .266 |
| Boston, Mass..... | 29.827 | .831 | .830 | .829 | .831 | .835 | .836 | .831 | .830 | .832 | .826 | .825 | .821 | .815 | .807 | .802 | .791 | .774 | .764 | .756 | .751 | .748 | .747 | .74.1 | .77.3 |
| Buffalo, N. Y.... | .096 | .103 | .100 | .098 | .105 | .114 | .118 | .120 | .130 | .142 | .140 | .124 | .114 | .108 | .111 | .115 | .120 | .134 | .131 | .129 | .128 | .125 | .123 | .117 | |
| Chicago, Ill..... | .137 | .150 | .150 | .145 | .147 | .154 | .168 | .170 | .181 | .180 | .185 | .147 | .147 | .142 | .139 | .138 | .138 | .136 | .135 | .137 | .135 | .131 | .128 | .123 | |
| Cincinnati, Ohio.... | .435 | .440 | .440 | .435 | .435 | .441 | .441 | .446 | .446 | .444 | .423 | .411 | .412 | .413 | .411 | .412 | .413 | .422 | .433 | .444 | .451 | .457 | .461 | .4 | |

TABLE VI.—Average wind movement for each hour of seventy-fifth meridian time, December, 1898.

| Stations. | 1 a. m. | 2 a. m. | 3 a. m. | 4 a. m. | 5 a. m. | 6 a. m. | 7 a. m. | 8 a. m. | 9 a. m. | 10 a. m. | Noon. | 1 p. m. | 2 p. m. | 3 p. m. | 4 p. m. | 5 p. m. | 6 p. m. | 7 p. m. | 8 p. m. | 9 p. m. | 10 p. m. | 11 p. m. | Midnight. | Mean. | |
|----------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|-----------|-------|------|
| Abilene, Tex. | 8.7 | 9.3 | 9.3 | 9.2 | 9.1 | 9.3 | 8.9 | 8.6 | 9.0 | 9.5 | 10.7 | 11.5 | 12.9 | 12.7 | 12.4 | 10.9 | 9.3 | 7.5 | 7.7 | 8.0 | 8.6 | 9.3 | 9.9 | | |
| Albany, N. Y. | 7.1 | 6.4 | 6.9 | 7.0 | 6.7 | 7.1 | 7.0 | 8.0 | 9.2 | 9.1 | 9.5 | 9.6 | 10.2 | 9.5 | 9.1 | 8.0 | 7.5 | 6.7 | 7.4 | 7.6 | 7.5 | 6.7 | 7.0 | 7.8 | |
| Alpena, Mich. | 9.5 | 9.2 | 9.4 | 9.3 | 9.7 | 9.7 | 9.9 | 9.8 | 9.6 | 10.9 | 11.1 | 12.0 | 13.1 | 12.9 | 12.7 | 11.9 | 11.0 | 10.4 | 10.9 | 10.4 | 10.1 | 9.8 | 9.5 | 9.3 | 10.5 |
| Amarillo, Tex. | 16.0 | 15.9 | 15.3 | 16.5 | 15.6 | 15.3 | 15.4 | 14.8 | 14.4 | 13.1 | 14.2 | 15.2 | 15.0 | 15.0 | 14.7 | 13.7 | 12.8 | 12.5 | 13.6 | 14.6 | 14.8 | 15.0 | 14.7 | 14.7 | |
| Atlanta, Ga. | 9.7 | 10.2 | 9.8 | 10.0 | 9.8 | 9.1 | 9.4 | 9.0 | 9.1 | 9.4 | 9.5 | 10.0 | 10.5 | 11.0 | 10.6 | 9.9 | 8.8 | 8.6 | 9.2 | 9.5 | 10.0 | 10.5 | 10.6 | 9.8 | |
| Atlantic City, N. J. | 10.2 | 10.3 | 10.2 | 10.6 | 11.2 | 10.4 | 11.0 | 10.8 | 12.5 | 13.1 | 13.6 | 14.3 | 14.4 | 14.5 | 18.8 | 12.7 | 11.2 | 10.3 | 10.9 | 11.0 | 10.6 | 10.8 | 11.1 | 11.7 | |
| Augusta, Ga. | 4.9 | 4.9 | 4.8 | 5.4 | 4.8 | 5.0 | 4.7 | 5.5 | 5.8 | 6.7 | 7.1 | 7.9 | 8.7 | 8.7 | 9.0 | 9.4 | 8.3 | 6.5 | 5.5 | 5.3 | 4.8 | 5.5 | 6.2 | 5.3 | 4.7 |
| Baker City, Oreg. | 4.8 | 4.7 | 5.8 | 6.0 | 5.3 | 5.5 | 5.0 | 4.9 | 4.9 | 5.2 | 4.9 | 5.3 | 4.7 | 4.9 | 4.2 | 3.5 | 4.0 | 3.6 | 2.8 | 3.7 | 4.5 | 5.3 | 5.0 | 5.6 | 5.3 |
| Baltimore, Md. | 4.5 | 4.5 | 4.6 | 4.9 | 5.0 | 4.8 | 4.3 | 4.3 | 5.1 | 6.4 | 7.2 | 8.0 | 7.8 | 7.9 | 7.7 | 7.0 | 6.3 | 5.4 | 4.8 | 4.9 | 4.7 | 4.8 | 4.9 | 5.0 | 5.6 |
| Bismarck, N. Dak. | 7.7 | 7.5 | 7.4 | 7.1 | 7.1 | 7.6 | 7.8 | 7.5 | 8.8 | 9.4 | 11.1 | 12.6 | 14.2 | 14.4 | 14.2 | 13.7 | 11.9 | 9.5 | 8.5 | 8.5 | 8.8 | 7.5 | 7.7 | 9.5 | |
| Block Island, R. I. | 18.3 | 17.5 | 17.0 | 16.8 | 16.6 | 17.0 | 17.4 | 17.0 | 17.5 | 17.9 | 18.7 | 19.6 | 20.1 | 19.2 | 19.0 | 19.2 | 18.7 | 19.5 | 19.4 | 19.6 | 18.8 | 19.7 | 18.9 | 18.4 | 18.4 |
| Boise, Idaho | 3.5 | 3.1 | 3.1 | 2.9 | 2.8 | 3.0 | 2.6 | 2.7 | 2.8 | 2.6 | 2.9 | 2.8 | 3.9 | 3.8 | 4.3 | 4.1 | 4.7 | 4.4 | 4.2 | 3.4 | 3.5 | 3.9 | 4.3 | 3.6 | 3.5 |
| Boston, Mass. | 11.0 | 11.2 | 11.0 | 10.5 | 10.2 | 10.5 | 11.2 | 11.3 | 12.2 | 11.7 | 12.4 | 13.5 | 13.6 | 13.2 | 12.2 | 11.8 | 11.4 | 11.7 | 12.1 | 12.1 | 12.2 | 11.8 | 11.9 | 11.9 | |
| Buffalo, N. Y. | 25.0 | 24.9 | 24.9 | 25.4 | 25.3 | 24.4 | 23.0 | 22.5 | 21.1 | 21.9 | 23.5 | 24.1 | 24.9 | 24.5 | 24.3 | 23.5 | 23.2 | 24.0 | 25.6 | 25.6 | 24.6 | 23.7 | 23.2 | 24.1 | |
| Cairo, Ill. | 9.2 | 9.4 | 9.9 | 9.5 | 9.7 | 9.4 | 9.5 | 9.7 | 9.2 | 9.9 | 10.5 | 11.3 | 11.0 | 11.5 | 11.5 | 11.0 | 11.3 | 9.4 | 9.3 | 9.5 | 9.6 | 9.5 | 9.6 | 10.0 | |
| Cape Henry, Va. | 12.6 | 12.9 | 12.5 | 12.5 | 12.3 | 12.2 | 12.4 | 12.1 | 12.9 | 14.0 | 14.3 | 14.2 | 14.4 | 13.9 | 12.7 | 12.3 | 10.9 | 10.7 | 11.5 | 12.1 | 11.7 | 11.8 | 13.1 | 12.7 | |
| Carson City, Nev. | 4.4 | 3.5 | 3.3 | 2.9 | 3.0 | 3.3 | 4.3 | 4.1 | 3.4 | 2.8 | 3.0 | 2.6 | 3.9 | 5.0 | 6.0 | 6.9 | 7.5 | 8.7 | 5.2 | 4.9 | 4.2 | 4.6 | 4.7 | | |
| Charleston, S. C. | 9.6 | 9.6 | 9.6 | 9.2 | 9.5 | 9.5 | 10.2 | 10.2 | 10.5 | 10.5 | 10.6 | 10.7 | 12.1 | 11.4 | 10.6 | 9.8 | 9.2 | 9.4 | 9.5 | 9.8 | 9.5 | 9.0 | 10.0 | | |
| Charlotte, N. C. | 7.2 | 6.8 | 6.4 | 6.1 | 6.0 | 6.2 | 5.7 | 6.0 | 6.3 | 6.7 | 7.5 | 8.0 | 8.3 | 9.2 | 9.1 | 9.5 | 9.7 | 8.5 | 7.8 | 7.1 | 7.8 | 7.2 | 6.9 | 7.5 | |
| Chattanooga, Tenn. | 6.8 | 6.9 | 6.3 | 6.4 | 6.2 | 6.5 | 6.4 | 6.8 | 7.6 | 7.5 | 8.2 | 8.7 | 8.7 | 9.6 | 10.6 | 9.7 | 8.9 | 7.8 | 7.2 | 8.4 | 7.5 | 7.3 | 7.2 | 7.5 | |
| Cheyenne, Wyo. | 11.3 | 11.4 | 11.2 | 11.0 | 11.9 | 13.7 | 14.2 | 14.5 | 13.6 | 13.4 | 13.8 | 13.7 | 16.5 | 16.4 | 16.9 | 17.2 | 16.7 | 18.8 | 12.1 | 10.4 | 10.6 | 10.8 | 10.5 | 11.0 | 13.2 |
| Chicago, Ill. | 18.6 | 18.1 | 18.3 | 18.1 | 18.1 | 18.0 | 17.9 | 19.0 | 19.1 | 19.1 | 19.6 | 20.9 | 22.8 | 23.1 | 23.1 | 22.3 | 20.8 | 21.1 | 20.8 | 19.8 | 19.3 | 18.3 | 17.8 | 19.9 | |
| Cincinnati, Ohio | 8.8 | 8.3 | 7.6 | 7.8 | 7.9 | 8.2 | 8.1 | 8.3 | 9.0 | 9.8 | 10.7 | 10.3 | 10.9 | 11.4 | 11.3 | 11.2 | 10.9 | 10.3 | 10.1 | 8.7 | 8.7 | 8.4 | 9.4 | | |
| Cleveland, Ohio | 18.7 | 18.4 | 18.3 | 17.6 | 17.6 | 18.0 | 17.5 | 18.1 | 18.3 | 18.1 | 18.2 | 18.1 | 18.4 | 18.1 | 18.0 | 18.1 | 18.6 | 19.3 | 20.8 | 20.9 | 21.5 | 20.7 | 20.2 | 18.8 | |
| Columbia, Mo. | 8.7 | 9.5 | 9.1 | 9.7 | 9.4 | 8.9 | 9.1 | 9.0 | 9.3 | 9.2 | 10.2 | 11.0 | 11.6 | 12.3 | 11.8 | 11.1 | 9.6 | 9.0 | 9.4 | 8.9 | 9.0 | 8.5 | 8.7 | 9.8 | |
| Columbus, Ohio | 9.1 | 9.1 | 9.1 | 8.6 | 8.7 | 8.7 | 8.7 | 8.6 | 8.9 | 9.9 | 10.3 | 10.9 | 11.4 | 11.5 | 11.5 | 10.8 | 10.1 | 9.2 | 9.8 | 9.8 | 10.0 | 9.5 | 9.2 | 9.7 | |
| Concordia, Kans. | 5.8 | 5.6 | 5.9 | 5.8 | 5.8 | 5.7 | 5.4 | 5.0 | 5.4 | 6.0 | 6.9 | 7.5 | 7.1 | 7.5 | 7.2 | 6.7 | 5.9 | 5.8 | 6.0 | 6.1 | 6.1 | 5.8 | 6.1 | | |
| Corpus Christi, Tex. | 9.7 | 9.5 | 9.3 | 9.2 | 8.9 | 9.5 | 9.6 | 10.4 | 9.7 | 9.7 | 10.8 | 10.7 | 10.6 | 10.7 | 10.8 | 10.1 | 11.6 | 12.2 | 11.1 | 11.6 | 9.9 | 9.7 | 10.1 | 10.2 | |
| Davenport, Iowa | 7.6 | 7.2 | 7.1 | 7.1 | 7.4 | 7.7 | 7.7 | 8.1 | 8.1 | 8.6 | 9.6 | 10.7 | 11.3 | 11.5 | 11.5 | 11.3 | 10.3 | 9.3 | 8.6 | 8.1 | 7.6 | 7.8 | 7.4 | 8.7 | |
| Denver, Colo. | 8.9 | 9.4 | 8.7 | 8.7 | 8.3 | 8.7 | 8.7 | 9.1 | 8.4 | 8.3 | 8.9 | 7.8 | 8.4 | 7.6 | 7.6 | 7.3 | 7.7 | 7.9 | 8.0 | 7.7 | 7.8 | 8.3 | 8.2 | | |
| Des Moines, Iowa | 7.7 | 7.5 | 7.1 | 6.9 | 7.3 | 7.3 | 7.5 | 7.4 | 7.4 | 7.7 | 8.3 | 8.4 | 9.0 | 9.1 | 9.4 | 8.8 | 8.2 | 7.5 | 7.1 | 6.4 | 6.9 | 6.8 | 7.4 | 7.7 | |
| Detroit, Mich. | 13.8 | 13.2 | 12.6 | 12.6 | 12.7 | 12.5 | 12.4 | 12.2 | 13.5 | 13.6 | 13.7 | 14.5 | 14.5 | 14.5 | 14.9 | 14.6 | 13.9 | 13.8 | 13.3 | 14.4 | 14.1 | 14.0 | 14.2 | 13.6 | |
| Dodge, Kans. | 8.9 | 9.0 | 9.3 | 9.0 | 9.8 | 9.7 | 9.6 | 9.5 | 9.5 | 9.3 | 9.4 | 10.1 | 11.3 | 10.9 | 10.9 | 10.8 | 10.5 | 9.5 | 8.1 | 8.7 | 8.4 | 8.1 | 8.4 | 9.2 | |
| Dubuque, Iowa | 6.7 | 6.5 | 6.0 | 6.3 | 6.6 | 6.6 | 6.3 | 6.8 | 6.8 | 7.5 | 8.4 | 9.1 | 9.7 | 9.5 | 9.7 | 9.9 | 8.8 | 8.1 | 6.9 | 6.8 | 7.3 | 6.6 | 7.5 | | |
| Duluth, Minn. | 9.7 | 9.3 | 8.6 | 7.3 | 8.2 | 8.7 | 8.4 | 9.0 | 9.2 | 10.6 | 9.2 | 9.5 | 10.7 | 9.9 | 9.8 | 8.8 | 8.5 | 8.4 | 9.4 | 9.7 | 9.8 | 9.2 | 9.9 | | |
| Eastport, Me. | 11.7 | 11.4 | 12.2 | 12.3 | 11.8 | 12.6 | 12.6 | 12.3 | 11.2 | 11.8 | 11.9 | 11.6 | 12.1 | 11.8 | 11.8 | 10.9 | 10.6 | 10.6 | 10.9 | 10.9 | 11.5 | 11.4 | 11.6 | 11.6 | |
| El Paso, Tex. | 11.3 | 12.1 | 12.3 | 12.7 | 12.1 | 10.5 | 10.0 | 10.5 | 11.6 | 12.1 | 10.8 | 10.8 | 12.3 | 12.6 | 13.5 | 14.1 | 14.6 | 14.2 | 14.1 | 12.2 | 12.7 | 13.4 | 13.1 | 12.3 | |
| Erie, Pa. | 16.6 | 15.8 | 15.8 | 16.2 | 16.4 | 15.9 | 16.0 | 15.9 | 16.1 | 15.9 | 15.5 | 15.5 | 15.5 | 15.5 | 15.7 | 15.7 | 15.1 | 15.6 | 15.1 | 16.0 | 17.2 | 17.4 | 16.0 | 16.0 | |
| Escanaba, Mich. | 8.5 | 9.0 | 8.8 | 8.5 | 9.4 | 9.4 | 9.3 | 9.5 | 9.5 | 9.3 | 10.1 | 10.6 | 10.0 | 10.0 | 10.1 | 10.0 | 9.0 | 8.1 | 8.3 | 8.4 | 8.4 | 8.3 | 9.1 | | |
| Eureka, Cal. | 3.3 | 2.8 | 2.7 | 3.2 | 2.9 | 3.0 | 2.8 | 3.1 | 3.1 | 2.8 | 3.3 | 3.1 | 3.2 | 3.9 | 4.3 | 5.1 | 5.4 | 6.0 | 5.8 | 4.9 | 5.3 | 4.7 | 4.5 | 3.9 | |
| Evansville, Ind. | 7.5 | 7.7 | 7.7 | 7.9 | 7.5 | 7.9 | 7.9 | 8.1 | 8.6 | 8.6 | 9.4 | 9.7 | 9.9 | 10.4 | 10.7 | 9.3 | 8.7 | 8.3 | 8.2 | 8.9 | 8.4 | 8.0 | 7.6 | 8.5 | |
| Fort Canby, Wash. | 14.5 | 14.7 | 15.5 | 15.2 | 15.8 | 15.2 | 16.0 | 15.6 | 16.1 | 16.1 | 17.3 | 17.7 | 18.8 | 18.4 | 18.3 | 18.4 | 17.7 | 17.3 | 15.7 | 15.4 | 16.2 | 15.7 | 16.5 | | |
| Fort Smith, Ark. | 6.1 | 6.3 | 6.2 | 6.7 | 6.6 | 6.5 | 6.5 | 6.8 | 6.6 | 7.5 | 7.5 | 8.0 | 8.7 | 8.6 | 8.8 | 8.8 | 8.0 | 7.3 | 6.5 | 5.8 | 6.0 | 7.1 | | | |
| Fresno, Cal. | 3.3 | 3.2 | 3.5 | 3.7 | 4.1 | 3.9 | 3.9 | 3.7 | 3.7 | 3.3 | 3.0 | 2.7 | 3.6 | 3.7 | 3.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | | |
| Galveston, Tex. | 11.1 | 10.9 | 11.2 | 11.1 | 11.0 | 11.0 | 10.8 | 10.5 | 11.2 | 11.2 | 11.1 | 11.8 | 11.5 | 11.6 | 11.7 | 11.0 | 10.5 | 10.5 | 10.7 | 11.0 | 11.5 | 11.7 | 11.1 | 12.2 | |
| Grand Haven, Mich. | 13.6 | 13.2 | 12.9 | 13.1 | 12.9 | 13.4 | 13.8 | 13.0 | 13.3 | 13.3 | 13.9 | 14.4 | 14.8 | 14.4 | 14.1 | 14.1 | 13.6 | 13.7 | 14.0 | 13.6 | 13.2 | 13.1 | 13.6 | | |
| Green Bay, Wis. | 8.3 | 8.8 | 8.2 | 7.7 | 7.7 | 7.8 | 8.5 | 8.3 | 8.2 | 9.4 | 9.8 | 10.4 | 10.4 | 10.3 | 10.0 | 9.4 | 8.4 | 8.6 | 8.5 | 8.5 | 8.1 | 7.5 | 8.7 | | |
| Hannibal, Mo. | 10.3 | 10.2 | 10.3 | 10.4 | 9.9 | 10.1 | 10.1 | 10.0 | 10.3 | 11.2 | 12.2 | 12.7 | 14.1 | 13.3 | 13.4 | 13.4 | 13.8 | 10.0 | 9.6 | 9.1 | 10.2 | 9.6 | 10.9 | | |
| Harrisburg, Pa. | 7.7 | 6.8 | 7.1 | 7.6 | 7.9 | 7.3 | 7.9 | 7.4 | 8.4 | 9.0 | 10.4 | 10.7 | 11.6 | 12.0 | 11.9 | 9.3 | 8.5 | 7.6 | 7.2 | 7.9 | 7.5 | 7.9 | 8.3 | | |
| Hatteras, N. C. | 12.8 | 13.1 | 13.8 | 13.1 | 13.1</td | | | | | | | | | | | | | | | | | | | | |

TABLE VI.—Average wind movement, etc.—Continued.

| Stations. | 1 a. m. | 2 a. m. | 3 a. m. | 4 a. m. | 5 a. m. | 6 a. m. | 7 a. m. | 8 a. m. | 9 a. m. | 10 a. m. | Noon. | 1 p. m. | 2 p. m. | 3 p. m. | 4 p. m. | 5 p. m. | 6 p. m. | 7 p. m. | 8 p. m. | 9 p. m. | 10 p. m. | 11 p. m. | Midnight. | Mean. | |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|-----------|-------|------|
| Northfield, Vt..... | 8.4 | 8.7 | 8.5 | 8.4 | 8.2 | 9.2 | 8.6 | 8.6 | 8.5 | 10.0 | 10.6 | 11.9 | 11.5 | 11.4 | 11.2 | 9.5 | 9.2 | 9.6 | 8.4 | 8.9 | 9.6 | 9.9 | 9.5 | 9.5 | |
| North Platte, Nebr..... | 7.4 | 7.7 | 7.5 | 7.2 | 7.3 | 7.2 | 7.4 | 7.1 | 6.8 | 7.2 | 9.3 | 9.7 | 11.2 | 12.6 | 13.2 | 13.0 | 12.3 | 10.5 | 8.5 | 8.5 | 7.6 | 7.0 | 6.9 | 7.5 | |
| Oklahoma, Okla..... | 7.1 | 7.1 | 8.1 | 8.0 | 8.0 | 7.7 | 7.3 | 7.7 | 8.5 | 9.8 | 10.9 | 11.3 | 11.9 | 12.1 | 11.5 | 10.9 | 9.0 | 7.6 | 7.4 | 7.7 | 7.6 | 7.7 | 8.1 | 8.8 | |
| Omaha, Nebr..... | 7.1 | 7.3 | 7.1 | 7.2 | 7.5 | 7.6 | 7.5 | 7.0 | 6.9 | 6.8 | 7.8 | 8.0 | 7.7 | 7.5 | 8.1 | 7.5 | 7.0 | 6.6 | 7.1 | 7.7 | 7.4 | 7.7 | 7.4 | 7.4 | |
| Oswego, N. Y..... | 14.1 | 14.3 | 13.8 | 14.5 | 14.5 | 14.4 | 14.4 | 14.4 | 14.6 | 14.9 | 15.5 | 15.5 | 16.1 | 16.5 | 16.4 | 16.0 | 15.6 | 15.7 | 15.5 | 14.9 | 14.5 | 14.9 | 14.2 | 14.5 | |
| Palestine, Tex..... | 7.4 | 7.4 | 7.4 | 7.1 | 7.5 | 7.5 | 7.1 | 6.9 | 7.0 | 7.6 | 8.7 | 9.4 | 9.8 | 9.6 | 10.0 | 10.4 | 10.4 | 9.6 | 8.2 | 6.7 | 7.1 | 7.2 | 7.1 | 7.4 | 8.1 |
| Parkersburg, W. Va..... | 6.5 | 6.4 | 6.7 | 6.3 | 6.8 | 6.5 | 6.9 | 6.7 | 7.0 | 7.5 | 8.1 | 8.5 | 8.6 | 8.8 | 8.7 | 8.5 | 7.6 | 6.8 | 7.2 | 7.3 | 7.7 | 7.8 | 6.6 | 7.4 | 7.4 |
| Pensacola, Fla..... | 9.0 | 9.4 | 9.6 | 10.0 | 9.8 | 9.6 | 10.3 | 9.8 | 9.3 | 10.4 | 9.7 | 9.8 | 10.0 | 10.6 | 10.8 | 10.8 | 9.6 | 8.4 | 8.8 | 9.2 | 9.5 | 10.2 | 10.2 | 9.8 | 9.8 |
| Philadelphia, Pa..... | 9.5 | 9.1 | 9.3 | 9.8 | 9.3 | 9.0 | 9.4 | 9.9 | 10.3 | 11.0 | 11.6 | 12.5 | 13.0 | 12.4 | 12.8 | 12.3 | 11.4 | 10.8 | 10.8 | 10.7 | 10.2 | 9.7 | 9.5 | 9.8 | 10.6 |
| Phoenix, Ariz..... | 4.1 | 3.7 | 3.4 | 3.7 | 3.5 | 3.5 | 3.7 | 4.0 | 3.7 | 3.4 | 4.3 | 5.0 | 5.3 | 5.5 | 5.7 | 5.0 | 4.5 | 3.4 | 3.8 | 3.7 | 3.4 | 3.5 | 4.1 | 3.5 | 4.1 |
| Pierre, S. Dak..... | 7.1 | 6.7 | 6.7 | 6.1 | 5.8 | 5.9 | 5.6 | 5.7 | 5.6 | 6.2 | 7.2 | 9.5 | 11.8 | 12.3 | 12.8 | 12.0 | 10.8 | 10.1 | 9.3 | 8.6 | 7.8 | 7.5 | 8.4 | 8.3 | 8.3 |
| Pittsburg, Pa..... | 7.1 | 6.8 | 6.6 | 6.8 | 7.1 | 6.5 | 6.7 | 7.1 | 7.5 | 8.0 | 8.8 | 9.2 | 9.8 | 9.2 | 8.8 | 8.6 | 7.9 | 7.5 | 7.3 | 7.6 | 7.8 | 7.6 | 7.8 | 7.7 | 7.7 |
| Point Reyes Lt., Cal..... | 14.7 | 15.1 | 14.3 | 14.6 | 14.8 | 14.2 | 14.4 | 13.1 | 14.4 | 13.9 | 13.5 | 12.4 | 12.6 | 12.2 | 12.4 | 12.2 | 12.6 | 13.2 | 14.6 | 15.1 | 15.3 | 15.3 | 18.0 | 14.0 | 14.0 |
| Port Huron, Mich..... | 13.8 | 13.3 | 13.7 | 13.3 | 13.3 | 12.7 | 12.4 | 12.6 | 12.9 | 12.9 | 13.5 | 14.6 | 14.9 | 14.0 | 14.1 | 14.3 | 14.0 | 13.5 | 13.2 | 14.4 | 14.4 | 14.6 | 14.1 | 13.7 | 13.7 |
| Port Crescent, Wash..... | 3.1 | 3.5 | 3.3 | 3.4 | 3.7 | 3.6 | 3.3 | 3.4 | 3.3 | 3.3 | 2.8 | 3.4 | 3.7 | 4.3 | 4.7 | 5.0 | 4.8 | 4.0 | 3.8 | 4.0 | 3.8 | 3.9 | 3.5 | 3.7 | 3.7 |
| Portland, Me..... | 7.7 | 7.8 | 7.2 | 7.4 | 7.8 | 7.6 | 7.9 | 7.2 | 6.9 | 7.5 | 7.9 | 8.0 | 7.9 | 7.4 | 7.0 | 6.9 | 7.4 | 7.5 | 7.6 | 7.1 | 6.7 | 7.5 | 7.8 | 7.5 | 7.5 |
| Portland, Oreg..... | 8.2 | 8.5 | 8.7 | 9.0 | 8.2 | 8.6 | 8.4 | 8.5 | 8.6 | 8.9 | 8.4 | 9.2 | 10.1 | 10.0 | 10.0 | 9.7 | 9.6 | 10.0 | 9.1 | 8.3 | 7.3 | 7.9 | 8.0 | 8.8 | 8.8 |
| Pueblo, Colo..... | 5.8 | 4.6 | 4.4 | 5.5 | 6.2 | 6.4 | 6.1 | 5.8 | 6.8 | 6.6 | 6.2 | 6.1 | 5.9 | 5.6 | 6.8 | 7.5 | 7.5 | 6.3 | 4.9 | 4.9 | 5.4 | 5.0 | 5.0 | 5.0 | 5.0 |
| Raleigh, N. C..... | 6.8 | 6.1 | 5.8 | 5.7 | 5.4 | 5.7 | 5.7 | 5.7 | 5.6 | 6.7 | 7.1 | 7.2 | 7.6 | 8.3 | 8.4 | 6.9 | 6.2 | 6.0 | 6.1 | 6.0 | 6.1 | 6.2 | 6.8 | 6.5 | 6.5 |
| Rapid City, S. Dak..... | 8.8 | 7.8 | 7.0 | 7.3 | 7.9 | 7.9 | 7.8 | 7.3 | 7.1 | 7.3 | 7.6 | 7.7 | 8.4 | 10.1 | 10.5 | 10.3 | 10.9 | 9.3 | 7.1 | 6.5 | 7.0 | 7.5 | 7.6 | 7.0 | 7.0 |
| Red Bluff, Cal..... | 4.5 | 5.4 | 5.4 | 5.1 | 5.0 | 5.4 | 5.3 | 5.8 | 5.1 | 4.7 | 4.7 | 4.5 | 5.7 | 6.1 | 6.8 | 7.1 | 7.0 | 7.5 | 7.1 | 6.3 | 5.6 | 5.5 | 5.3 | 4.7 | 5.6 |
| Richmond, Va..... | 5.3 | 5.2 | 5.0 | 5.1 | 4.6 | 4.7 | 4.8 | 4.7 | 5.1 | 6.2 | 7.1 | 7.1 | 7.0 | 7.7 | 7.9 | 7.2 | 6.8 | 6.2 | 5.9 | 6.1 | 6.5 | 6.5 | 6.0 | 6.0 | 6.0 |
| Rochester, N. Y..... | 9.8 | 9.8 | 9.9 | 10.0 | 9.7 | 9.5 | 9.8 | 10.0 | 10.2 | 10.6 | 10.9 | 11.5 | 12.0 | 11.9 | 11.5 | 10.7 | 9.5 | 10.0 | 10.2 | 10.4 | 10.0 | 9.9 | 10.1 | 10.4 | |
| Roseburg, Oreg..... | 2.5 | 2.2 | 2.3 | 2.5 | 2.6 | 2.4 | 2.1 | 2.4 | 2.4 | 2.5 | 2.7 | 2.6 | 2.6 | 2.6 | 3.0 | 3.3 | 3.6 | 3.8 | 2.9 | 3.0 | 2.5 | 2.7 | 2.5 | 2.7 | 2.7 |
| Sacramento, Cal..... | 7.0 | 7.5 | 7.2 | 7.4 | 7.0 | 7.0 | 6.9 | 7.4 | 7.0 | 7.0 | 6.3 | 5.9 | 6.5 | 6.5 | 6.9 | 7.4 | 7.7 | 7.2 | 6.9 | 7.2 | 7.0 | 7.1 | 6.8 | 7.0 | 7.0 |
| St. Louis, Mo..... | 11.5 | 11.4 | 10.9 | 10.7 | 10.7 | 11.1 | 10.9 | 11.3 | 12.0 | 12.3 | 12.2 | 12.0 | 13.4 | 13.5 | 13.0 | 12.9 | 11.7 | 11.2 | 11.2 | 11.9 | 12.2 | 11.8 | 11.3 | 11.8 | |
| St. Paul, Minn..... | 6.9 | 6.6 | 6.5 | 6.6 | 6.6 | 6.8 | 6.7 | 6.7 | 7.0 | 7.2 | 8.0 | 8.5 | 8.4 | 9.1 | 9.0 | 8.8 | 7.6 | 6.6 | 6.7 | 7.4 | 6.7 | 7.4 | 6.7 | 7.4 | 7.4 |
| Salt Lake City, Utah..... | 4.6 | 4.5 | 4.3 | 4.5 | 3.9 | 4.4 | 4.3 | 4.9 | 4.5 | 4.1 | 4.2 | 4.7 | 5.5 | 6.5 | 7.0 | 7.8 | 7.5 | 6.6 | 5.9 | 4.8 | 4.1 | 4.0 | 5.2 | 5.1 | 5.1 |
| San Antonio, Tex..... | 7.7 | 7.4 | 7.6 | 7.6 | 7.8 | 7.9 | 8.2 | 9.3 | 10.4 | 9.5 | 9.5 | 11.5 | 11.8 | 12.7 | 13.5 | 14.2 | 13.6 | 13.1 | 12.1 | 10.2 | 9.0 | 8.4 | 8.1 | 8.0 | 10.0 |
| San Diego, Cal..... | 3.7 | 3.9 | 3.9 | 4.3 | 4.6 | 5.0 | 4.5 | 4.4 | 5.0 | 4.6 | 4.0 | 3.2 | 4.0 | 5.0 | 5.0 | 6.4 | 6.9 | 8.3 | 8.4 | 7.5 | 5.4 | 3.8 | 3.7 | 4.0 | 5.0 |
| Sandusky, Ohio..... | 10.0 | 9.6 | 10.0 | 10.0 | 9.8 | 9.9 | 9.9 | 10.4 | 10.1 | 10.3 | 11.0 | 11.1 | 11.0 | 11.0 | 10.8 | 10.5 | 10.4 | 9.5 | 9.7 | 9.7 | 10.8 | 11.2 | 10.8 | 10.8 | |
| San Francisco, Cal..... | 6.8 | 6.3 | 6.2 | 6.6 | 6.4 | 6.7 | 7.4 | 6.8 | 7.0 | 7.0 | 7.4 | 7.8 | 8.0 | 7.3 | 6.7 | 7.2 | 7.6 | 6.7 | 6.1 | 6.4 | 6.2 | 6.4 | 6.7 | 6.9 | 6.9 |
| San Luis Obispo, Cal..... | 4.5 | 4.3 | 3.8 | 3.8 | 4.3 | 4.6 | 4.5 | 4.3 | 4.2 | 4.4 | 4.5 | 5.1 | 5.6 | 5.7 | 6.0 | 6.4 | 7.4 | 7.2 | 7.3 | 6.8 | 6.1 | 5.0 | 4.4 | 5.2 | 5.2 |
| Santa Fe, N. Mex..... | 6.3 | 5.9 | 5.9 | 5.8 | 5.6 | 6.2 | 6.6 | 6.9 | 6.5 | 6.5 | 6.8 | 7.9 | 8.4 | 9.0 | 10.0 | 9.8 | 8.7 | 8.4 | 7.4 | 6.1 | 5.7 | 5.6 | 5.9 | 6.2 | 7.0 |
| Sault Ste. Marie, Mich..... | 8.5 | 9.3 | 9.8 | 9.7 | 8.7 | 9.1 | 9.2 | 8.9 | 8.6 | 8.8 | 9.3 | 9.4 | 9.6 | 9.9 | 10.4 | 10.3 | 9.5 | 9.1 | 8.8 | 8.5 | 9.3 | 9.0 | 9.1 | 9.2 | 9.2 |
| Savannah, Ga..... | 7.8 | 8.2 | 7.5 | 7.5 | 7.6 | 7.6 | 7.6 | 7.9 | 8.3 | 8.5 | 9.1 | 9.5 | 10.2 | 10.0 | 10.1 | 9.9 | 9.5 | 8.6 | 7.9 | 7.6 | 8.0 | 7.9 | 8.1 | 8.4 | 8.5 |
| Seattle, Wash..... | 6.0 | 6.2 | 5.7 | 5.7 | 5.9 | 6.2 | 5.7 | 5.5 | 5.3 | 5.0 | 4.9 | 4.6 | 4.7 | 4.9 | 4.5 | 4.6 | 5.3 | 5.3 | 5.9 | 5.5 | 4.8 | 5.2 | 4.6 | 5.4 | 5.4 |
| Shreveport, La..... | 7.4 | 7.2 | 7.0 | 6.8 | 6.4 | 7.2 | 7.2 | 6.9 | 7.0 | 7.8 | 8.1 | 8.4 | 8.5 | 9.2 | 9.5 | 9.6 | 9.5 | 8.5 | 7.6 | 7.4 | 7.9 | 8.1 | 7.8 | 7.9 | 7.9 |
| Sionx City, Iowa..... | 9.8 | 10.4 | 11.3 | 11.1 | 10.9 | 12.0 | 10.6 | 11.3 | 11.1 | 11.5 | 10.9 | 11.0 | 11.4 | 11.7 | 12.2 | 12.4 | 12.4 | 11.8 | 10.8 | 10.9 | 11.9 | 11.1 | 11.1 | 9.7 | 11.2 |
| Spokane, Wash..... | 4.8 | 4.5 | 3.8 | 4.9 | 4.6 | 4.0 | 4.3 | 4.1 | 4.4 | 4.2 | 4.4 | 4.5 | 5.0 | 5.2 | 5.7 | 5.3 | 5.2 | 5.2 | 5.3 | 5.2 | 5.0 | 4.5 | 4.8 | 4.8 | 4.8 |
| Springfield, Ill..... | 10.4 | 10.4 | 9.6 | 9.8 | 9.6 | 9.9 | 9.8 | 9.9 | 10.1 | 10.8 | 11.8 | 12.6 | 12.9 | 13.3 | 12.8 | 12.8 | 11.9 | 10.6 | 9.8 | 10.0 | 10.0 | 10.1 | 9.9 | 10.1 | 10.8 |
| Springfield, Mo..... | 10.5 | 10.1 | 10.8 | 10.5 | 10.2 | 10.6 | 10.9 | 10.4 | 10.4 | 10.8 | 11.3 | 12.1 | 12.6 | 12.7 | 13.3 | 12.7 | 11.5 | 11.5 | 10.6 | 10.6 | 10.5 | 10.1 | 9.5 | 9.6 | 10.2 |
| Tacoma, Wash..... | 5.5 | 5.3 | 4.9 | 5.1 | 5.1 | 4.9 | 4.3 | 4.6 | 4.8 | 4.8 | 4.6 | 4.4 | 4.1 | 4.6 | 4.6 | 5.5 | 5.1 | 6.4 | 6.0 | 6.5 | 5.9 | 5.8 | 5.7 | 5.6 | 5.2 |
| Tampa, Fla..... | 5.7 | 6.0 | 6.1 | 5.7 | 5.5 | 5.6 | 5.8 | 6.4 | 6.6 | 7.4 | 7.8 | 8.3 | 8.3 | 7.9 | 8.4 | 8.7 | 7.6 | 7.2 | 6.5 | 5.9 | 5.9 | 5.8 | 5.5 | 6.7 | 6.7 |
| Toledo, Ohio..... | 12.8 | 12.4 | 12.1 | 12.5 | 12.3 | 12.8 | 12.2 | 12.5 | 12.2 | 13.0 | 13.9 | 14.3 | 14.4 | 14.4 | 14.1 | 13.5 | 12.7 | 13.4 | 13.1 | 13.5 | 13.3 | 13.8 | 12.9 | 13.1 | |
| Vicksburg, Miss..... | 7.6 | 6.7 | 7.3 | 7.3 | 6.9 | 6.6 | 6.7 | 7.3 | 7.2 | 7.6 | 7.9 | 7.8 | 8.4 | 8.5 | 8.7 | 8.4 | 7.8 | 7.9 | 7.6 | 7.7 | 7.5 | 8.3 | 8.0 | 7.8 | 7.6 |
| Vineyard Haven, Mass..... | 11.1 | 10.1 | 9.9 | 9.8 | 9.6 | 9.7 | 9.3 | 9.9 | 10.6 | 11.3 | 12.0 | 12.3 | 11.7 | 11.4 | 11.0 | 11.1 | 11.0 | 10.6 | 10.9 | 11.0 | 11.2 | 11.1 | 10.7 | 10.7 | 10.7 |
| Walla Walla, Wash..... | 4.6 | 4.7 | 4.8 | 4.8 | 4.6 | 4.3 | 4.5 | 4.4 | 4.4 | 4.8 | 4.5 | 4.5 | 4.6 | 4.5 | 4.5 | 5.4 | 5.9 | 5.9 | 5.2 | 5.0 | 4.5 | 4.7 | 4.5 | 4.8 | 4.8 |
| Washington, D. C..... | 4.5 | 4.8 | 5. | | | | | | | | | | | | | | | | | | | | | | |

TABLE VII.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of December, 1898.

| Stations. | Component direction from— | | | | Resultant. | | Stations. | Component direction from— | | | | Resultant. | | | | | | | | |
|-----------------------------------|---------------------------|----|----|----|-----------------|-----------|-------------------------------------|---------------------------|----|------|----|-----------------|-----------|--|--|--|--|--|--|--|
| | N. | S. | E. | W. | Direction from— | Duration. | | N. | S. | E. | W. | Direction from— | Duration. | | | | | | | |
| <i>New England.</i> | | | | | | | | | | | | | | | | | | | | |
| Eastport, Me. | 18 | 10 | 12 | 35 | n. 71 w. | 24 | St. Paul, Minn. | 18 | 18 | 8 | 34 | n. 88 w. | 26 | | | | | | | |
| Portland, Me. | 21 | 19 | 6 | 35 | n. 86 w. | 29 | La Crosse, Wis. † | 9 | 14 | 4 | 12 | s. 53 w. | 9 | | | | | | | |
| Northfield, Vt. | 13 | 41 | 5 | 35 | s. 14 w. | 29 | Davenport, Iowa | 13 | 17 | 5 | 42 | s. 84 w. | 37 | | | | | | | |
| Boston, Mass. | 13 | 15 | 9 | 39 | s. 88 w. | 30 | Des Moines, Iowa | 25 | 9 | 2 | 27 | n. 65 w. | 38 | | | | | | | |
| Nantucket, Mass. | 25 | 12 | 9 | 34 | n. 63 w. | 28 | Dubuque, Iowa | 18 | 20 | 6 | 34 | s. 86 w. | 28 | | | | | | | |
| Wood Hole, Mass. * | 5 | 12 | 5 | 34 | s. 55 w. | 12 | Keokuk, Iowa | 21 | 22 | 3 | 36 | s. 88 w. | 33 | | | | | | | |
| Block Island, R. I. | 20 | 9 | 10 | 34 | n. 65 w. | 26 | Cairo, Ill. | 22 | 23 | 8 | 20 | s. 85 w. | 12 | | | | | | | |
| New Haven, Conn. | 21 | 17 | 7 | 32 | n. 81 w. | 25 | Springfield, Ill. | 19 | 23 | 4 | 31 | s. 84 w. | 27 | | | | | | | |
| <i>Middle Atlantic States.</i> | | | | | | | | | | | | | | | | | | | | |
| Albany, N. Y. | 14 | 28 | 6 | 22 | s. 49 w. | 21 | Hannibal, Mo. † | 9 | 11 | 3 | 16 | s. 81 w. | 13 | | | | | | | |
| Binghamton, N. Y. † | 8 | 7 | 10 | 14 | n. 76 w. | 4 | St. Louis, Mo. | 16 | 27 | 2 | 30 | s. 68 w. | 30 | | | | | | | |
| New York, N. Y. | 22 | 14 | 10 | 32 | n. 70 w. | 23 | <i>Upper Mississippi Valley.</i> | | | | | | | | | | | | | |
| Harrisburg, Pa. † | 5 | 7 | 6 | 18 | s. 81 w. | 12 | St. Paul, Minn. | 18 | 18 | 8 | 34 | n. 88 w. | 26 | | | | | | | |
| Philadelphia, Pa. | 20 | 17 | 8 | 32 | n. 83 w. | 24 | La Crosse, Wis. † | 9 | 14 | 4 | 12 | s. 53 w. | 9 | | | | | | | |
| Atlantic City, N. J. | 19 | 14 | 8 | 35 | n. 80 w. | 28 | Davenport, Iowa | 13 | 17 | 5 | 42 | s. 84 w. | 37 | | | | | | | |
| Cape May, N. J. | 15 | 19 | 8 | 32 | s. 81 w. | 10 | Des Moines, Iowa | 25 | 9 | 2 | 27 | n. 65 w. | 38 | | | | | | | |
| Baltimore, Md. | 14 | 18 | 11 | 33 | s. 80 w. | 23 | Dubuque, Iowa | 18 | 20 | 6 | 34 | s. 86 w. | 28 | | | | | | | |
| Washington, D. C. | 23 | 19 | 6 | 29 | n. 80 w. | 33 | Keokuk, Iowa | 21 | 22 | 3 | 36 | s. 88 w. | 33 | | | | | | | |
| Lynchburg, Va. | 18 | 23 | 8 | 36 | s. 80 w. | 28 | Cairo, Ill. | 22 | 23 | 8 | 20 | s. 85 w. | 12 | | | | | | | |
| Norfolk, Va. | 18 | 23 | 10 | 22 | s. 67 w. | 13 | Springfield, Ill. | 19 | 23 | 4 | 31 | s. 84 w. | 27 | | | | | | | |
| Richmond, Va. | 18 | 26 | 9 | 20 | s. 54 w. | 14 | Hannibal, Mo. † | 9 | 11 | 3 | 16 | s. 81 w. | 13 | | | | | | | |
| <i>South Atlantic States.</i> | | | | | | | | | | | | | | | | | | | | |
| Charlotte, N. C. | 15 | 27 | 16 | 18 | s. 9 w. | 12 | St. Louis, Mo. | 16 | 27 | 2 | 30 | s. 68 w. | 30 | | | | | | | |
| Hatteras, N. C. | 24 | 16 | 3 | 27 | n. 72 w. | 25 | <i>Missouri Valley.</i> | | | | | | | | | | | | | |
| Raleigh, N. C. | 17 | 19 | 9 | 30 | s. 85 w. | 25 | Columbia, Mo. * | 11 | 9 | 3 | 16 | n. 81 w. | 13 | | | | | | | |
| Wilmington, N. C. | 23 | 17 | 7 | 26 | n. 73 w. | 24 | Kansas City, Mo. | 23 | 25 | 7 | 27 | s. 81 w. | 30 | | | | | | | |
| Charleston, S. C. | 24 | 16 | 9 | 24 | n. 62 w. | 17 | Springfield, Mo. | 17 | 23 | 7 | 24 | s. 71 w. | 18 | | | | | | | |
| Augusta, Ga. | 19 | 17 | 10 | 31 | n. 85 w. | 21 | Lincoln, Nebr. | 25 | 18 | 3 | 25 | n. 60 w. | 26 | | | | | | | |
| Savannah, Ga. | 24 | 18 | 8 | 24 | n. 69 w. | 17 | Omaha, Nebr. | 27 | 12 | 2 | 26 | n. 58 w. | 28 | | | | | | | |
| Jacksonville, Fla. | 25 | 20 | 7 | 21 | n. 70 w. | 15 | Sioux City, Iowa | 14 | 8 | 2 | 14 | n. 63 w. | 13 | | | | | | | |
| <i>Florida Peninsula.</i> | | | | | | | | | | | | | | | | | | | | |
| Jupiter, Fla. | 14 | 18 | 18 | 22 | s. 45 w. | 6 | Pierre, S. Dak. | 18 | 10 | 13 | 29 | n. 63 w. | 18 | | | | | | | |
| Key West, Fla. | 19 | 12 | 9 | 25 | s. 78 e. | 14 | Huron, S. Dak. | 19 | 17 | 10 | 31 | n. 85 w. | 21 | | | | | | | |
| Tampa, Fla. | 23 | 13 | 20 | 13 | n. 25 e. | 17 | Yankton, S. Dak. † | 10 | 5 | 1 | 18 | n. 74 w. | 18 | | | | | | | |
| <i>Eastern Gulf States.</i> | | | | | | | | | | | | | | | | | | | | |
| Atlanta, Ga. | 21 | 16 | 15 | 30 | n. 72 w. | 16 | <i>Northern Slope.</i> | | | | | | | | | | | | | |
| Pensacola, Fla. | 33 | 12 | 17 | 16 | n. 3 e. | 21 | Havre, Mont. | 9 | 21 | 10 | 39 | s. 68 w. | 31 | | | | | | | |
| Mobile, Ala. | 34 | 15 | 7 | 13 | n. 18 w. | 20 | Miles City, Mont. | 11 | 29 | 3 | 28 | s. 54 w. | 31 | | | | | | | |
| Montgomery, Ala. | 24 | 17 | 17 | 19 | n. 16 w. | 7 | Helena, Mont. | 9 | 23 | 8 | 35 | s. 63 w. | 30 | | | | | | | |
| Vicksburg, Miss. | 21 | 17 | 20 | 14 | n. 56 e. | 17 | Rapid City, S. Dak. | 21 | 6 | 4 | 46 | n. 70 w. | 45 | | | | | | | |
| New Orleans, La. | 30 | 13 | 14 | 14 | n. | 17 | Cheyenne, Wyo. | 36 | 6 | 1 | 38 | n. 51 w. | 48 | | | | | | | |
| <i>Western Gulf States.</i> | | | | | | | | | | | | | | | | | | | | |
| Shreveport, La. | 23 | 16 | 21 | 20 | n. 8 e. | 7 | Lander, Wyo. | 12 | 28 | 22 | 21 | s. 3 e. | 16 | | | | | | | |
| Fort Smith, Ark. | 17 | 10 | 23 | 23 | n. | 7 | North Platte, Nebr. | 30 | 8 | 4 | 33 | n. 57 w. | 40 | | | | | | | |
| Little Rock, Ark. | 16 | 25 | 14 | 24 | n. 42 w. | 15 | <i>Middle Slope.</i> | | | | | | | | | | | | | |
| Corpus Christi, Tex. | 29 | 10 | 8 | 15 | n. 20 w. | 20 | Denver, Colo. | 15 | 92 | 13 | 12 | s. 3 e. | 17 | | | | | | | |
| Fort Worth, Tex. † | 14 | 8 | 3 | 15 | n. 53 w. | 10 | Pueblo, Colo. | 24 | 8 | 13 | 30 | s. 74 w. | 23 | | | | | | | |
| Galveston, Tex. | 24 | 15 | 21 | 15 | s. 29 e. | 12 | Concordia, Kan. | 14 | 23 | 6 | 23 | s. 62 w. | 19 | | | | | | | |
| Palestine, Tex. | 29 | 18 | 12 | 16 | n. 20 w. | 12 | Dodge, Kans. | 23 | 10 | 5 | 36 | s. 69 w. | 33 | | | | | | | |
| San Antonio, Tex. | 34 | 13 | 13 | 10 | n. 8 e. | 22 | Wichita, Kans. | 27 | 21 | 6 | 21 | n. 68 w. | 18 | | | | | | | |
| <i>Ohio Valley and Tennessee.</i> | | | | | | | | | | | | | | | | | | | | |
| Chattanooga, Tenn. | 16 | 17 | 19 | 25 | s. 80 w. | 6 | Oklahoma, Okla. | 24 | 23 | 6 | 20 | n. 82 w. | 14 | | | | | | | |
| Knoxville, Tenn. | 22 | 20 | 12 | 24 | n. 81 w. | 12 | <i>Southern Slope.</i> | | | | | | | | | | | | | |
| Memphis, Tenn. | 20 | 21 | 18 | 18 | s. | 1 | El Paso, Tex. | 35 | 2 | 17 | 30 | n. 21 w. | 36 | | | | | | | |
| Nashville, Tenn. | 20 | 21 | 9 | 25 | s. 87 w. | 16 | Santa Fe, N. Mex. | 33 | 11 | 30 | 7 | n. 45 e. | 33 | | | | | | | |
| Lexington, Ky. | 15 | 25 | 9 | 24 | n. 56 w. | 18 | Flagstaff, Ariz. | 17 | 17 | 27 | 16 | e. | 11 | | | | | | | |
| Louisville, Ky. | 13 | 32 | 7 | 24 | s. 42 w. | 13 | Phoenix, Ariz. | 16 | 13 | 29 | 18 | n. 75 e. | 11 | | | | | | | |
| Evansville, Ind. † | 7 | 14 | 4 | 14 | s. 55 w. | 12 | Yuma, Ariz. | 42 | 4 | 16 | 12 | n. 6 e. | 38 | | | | | | | |
| Indianapolis, Ind. | 14 | 26 | 5 | 29 | s. 63 w. | 27 | Independence, Cal. | 33 | 14 | 5 | 28 | n. 50 w. | 30 | | | | | | | |
| Cincinnati, Ohio. | 8 | 25 | 13 | 32 | s. 48 w. | 26 | <i>Southern Plateau.</i> | | | | | | | | | | | | | |
| Columbus, Ohio. | 8 | 32 | 8 | 26 | s. 37 w. | 30 | Abilene, Tex. | 27 | 21 | 5 | 24 | n. 72 w. | 20 | | | | | | | |
| Pittsburg, Pa. | 17 | 21 | 7 | 36 | s. 82 w. | 29 | Porter, Tex. | 27 | 21 | 5 | 23 | s. 62 w. | 19 | | | | | | | |
| Parkersburg, W. Va. | 12 | 23 | 7 | 26 | s. 50 w. | 25 | Carson City, Nev. | 25 | 14 | 26 | 14 | n. 47 e. | 16 | | | | | | | |
| <i>Lower Lake Region.</i> | | | | | | | | | | | | | | | | | | | | |
| Buffalo, N. Y. | 10 | 18 | 7 | 38 | s. 76 w. | 32 | Winnemucca, Nev. | 30 | 17 | 7 | 35 | n. 88 e. | 16 | | | | | | | |
| Oswego, N. Y. | 11 | 31 | 10 | 26 | s. 39 w. | 36 | Salt Lake City, Utah. | 14 | 23 | 21 | 20 | s. 7 e. | 8 | | | | | | | |
| Rochester, N. Y. | 10 | 25 | 5 | 37 | s. 65 w. | 35 | <i>Northern Plateau.</i> | | | | | | | | | | | | | |
| Erie, Pa. | 11 | 29 | 5 | 34 | s. 58 w. | 34 | Baker City, Oreg. | 9 | 38 | 13 | 14 | s. 2 w. | 29 | | | | | | | |
| Cleveland, Ohio. | 6 | 38 | 10 | 21 | s. 19 w. | 34 | Boise, Idaho. | 17 | 19 | 15 | 18 | s. 56 w. | 4 | | | | | | | |
| Sandusky, Ohio. | 6 | 26 | 6 | 37 | s. 57 w. | 34 | Idaho Falls, Idaho. | 35 | 21 | 4 | 6 | n. 8 w. | 14 | | | | | | | |
| Toledo, Ohio. | 8 | 24 | 5 | 39 | s. 65 w. | 33 | Spokane, Wash. | 22 | 22 | 12 | 21 | w. | 9 | | | | | | | |
| Detroit, Mich. | 11 | 27 | 6 | 37 | s. 70 w. | 33 | Walla Walla, Wash. | 4 | 40 | 9 | 17 | s. 10 w. | 36 | | | | | | | |
| <i>Upper Lake Region.</i> | | | | | | | | | | | | | | | | | | | | |
| Alpena, Mich. | 14 | 17 | 2 | 39 | s. 85 w. | 37 | <i>North Pacific Coast Region.</i> | | | | | | | | | | | | | |
| Escanaba, Mich. | 19 | 14 | 1 | 43 | s. 83 w. | 42 | Fort Canby, Wash. | 9 | 9 | 41 | 9 | e. | 32 | | | | | | | |
| Grand Haven, Mich. | 22 | 14 | 11 | 32 | n. 69 w. | 42 | Neah, Wash. | 0 | 11 | 33 | 21 | s. 47 e. | 16 | | | | | | | |
| Marquette, Mich. | 14 | 20 | 3 | 42 | s. 81 w. | 40 | Port Crescent, Wash. * | 0 | 9 | 15 | 11 | s. 24 e. | 10 | | | | | | | |
| Port Huron, Mich. | 11 | 31 | 4 | 26 | s. 51 w. | 40 | Seattle, Wash. | 12 | 32 | 27 | 7 | s. 45 e. | 28 | | | | | | | |
| Sault Ste. Marie, Mich. | 15 | 19 | 22 | 20 | s. 27 e. | 4 | Tacoma, Wash. | 12 | 33 | 10 | 23 | s. 31 w. | 25 | | | | | | | |
| Chicago, Ill. | 14 | 18 | 4 | 27 | s. 80 w. | 23 | Portland, Oreg. | 15 | 19 | 28 | 14 | s. 74 e. | 15 | | | | | | | |
| Milwaukee, Wis. | 18 | 11 | 3 | 46 | n. 81 w. | 44 | Roseburg, Oreg. | 17 | 16 | 26 | 18 | n. 83 e. | 8 | | | | | | | |
| Green Bay, Wis. | 13 | 27 | 2 | 36 | s. 68 w. | 37 | <i>Middle Pacific Coast Region.</i> | | | | | | | | | | | | | |
| Duluth, Minn. | 13 | 28 | 6 | 37 | s. 64 w. | 34 | Eureka, Cal. | 17 | 24 | 17 | 23 | s. 41 w. | 9 | | | | | | | |
| <i>North Dakota.</i> | | | | | | | | | | | | | | | | | | | | |
| Moorhead, Minn. | 19 | 20 | 14 | 30 | s. 87 w. | 16 | Mount Tamalpais, Cal. | 29 | 10 | 23 | 19 | s. 12 e. | 19 | | | | | | | |
| Bismarck, N. Dak. | 32 | 8 | 9 | 30 | n. 41 w. | 32 | Red Bluff, Cal. | 39 | 9 | 10 | 15 | n. 9 w. | 30 | | | | | | | |
| Williston, N. Dak. | 23 | 17 | 7 | 32 | n. 77 w. | 24 | Sacramento, Cal. | 36 | 16 | 21</ | | | | | | | | | | |

TABLE VIII.—*Thunderstorms and auroras, December, 1898.*

| States. | No. of stations. | Total. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------|----------|---|---|----|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|----------|----------|----------|-----------|-----|----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | No. | Days. | | | | |
| Alabama..... | 58 | T. A. | | 1 | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 8 0 | 30 1 | T. A. | | | |
| Arizona..... | 53 | T. A. | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 0 | 10 0 | T. A. | | | |
| Arkansas..... | 57 | T. A. | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 0 | T. A. | | | | |
| California..... | 189 | T. A. | | | | | | | | | | | | | | | | | 1 | 3 | | | | | | | | | | | | | 5 0 | 30 1 | T. A. | | | |
| Colorado..... | 73 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 0 | T. A. | | | | |
| Connecticut..... | 22 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Delaware..... | 5 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 1 | T. A. | | | | |
| Dist. of Columbia | 4 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 1 | 10 0 | T. A. | | | | |
| Florida..... | 45 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Georgia..... | 54 | T. A. | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 18 5 | T. A. | | | | | |
| Idaho..... | 27 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Illinois..... | 92 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Indiana..... | 55 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 0 | T. A. | | | | |
| Indian Territory. | 8 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Iowa..... | 126 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 1 | T. A. | | | | |
| Kansas..... | 74 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Kentucky..... | 45 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Louisiana..... | 45 | T. A. | | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 3 17 | T. A. | | | | | |
| Maine..... | 17 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Maryland..... | 39 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 2 3 | T. A. | | | | |
| Massachusetts.... | 54 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 10 0 | T. A. | | | | |
| Michigan..... | 107 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 2 0 | T. A. | | | | |
| Minnesota..... | 64 | T. A. | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 2 0 | T. A. | | | | |
| Mississippi..... | 42 | T. A. | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 0 | 8 4 | T. A. | | | | |
| Missouri..... | 89 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Montana..... | 37 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Nebraska..... | 145 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 8 6 | T. A. | | | | |
| Nevada..... | 45 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| New Hampshire. | 20 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 4 3 | T. A. | | | | |
| New Jersey..... | 50 | T. A. | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 18 5 | T. A. | | | | |
| New Mexico..... | 38 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| New York..... | 103 | T. A. | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | 1 0 | 1 3 | T. A. | | | | | |
| North Carolina.. | 56 | T. A. | | 2 | 2 | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | 18 0 | 18 0 | T. A. | | | | | |
| North Dakota... | 40 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 0 0 | T. A. | | | | |
| Ohio..... | 124 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 3 | 3 3 | T. A. | | | | |
| Oklahoma..... | 22 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Oregon..... | 71 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 0 | 7 4 | T. A. | | | | |
| Pennsylvania.... | 100 | T. A. | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | 2 0 | 2 1 | T. A. | | | | | |
| Rhode Island.... | 8 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 1 0 | T. A. | | | | |
| South Carolina .. | 44 | T. A. | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 21 1 | 21 1 | T. A. | | | | | |
| South Dakota.... | 52 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 0 0 | T. A. | | | | |
| Tennessee..... | 61 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 1 1 | T. A. | | | | |
| Texas..... | 83 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2 | 3 2 | T. A. | | | | |
| Utah..... | 34 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Vermont..... | 14 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Virginia..... | 47 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 0 | 3 2 | T. A. | | | | |
| Washington..... | 55 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 1 0 | T. A. | | | | |
| West Virginia... | 38 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 0 | 1 0 | T. A. | | | | |
| Wisconsin..... | 60 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Wyoming..... | 18 | T. A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 0 | 00 0 | T. A. | | | | |
| Sums..... | 2,804 | T. A. | 0 | 9 | 11 | 11 | 1 | 0 | 2 | 2 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 10 | 6 | 1 | 2 | 1 | 0 | 4 | 8 | 32 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 5 | 7 | 148 48 | ... | T. A. |

TABLE IX.—Average hourly sunshine (in percentages), December, 1898.

| Stations. | Instrument. | Percentages for each hour of local mean time ending with the respective hour. | | | | | | | | | | | | | | Hours of sunshine. | | | | |
|-----------------------|-------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|----------------------|----------------------|----|
| | | A. M. | | | | | | | P. M. | | | | | | | Total. | | Personal estimate. | | |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Now | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Actual. | Possible. | |
| | | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Hour. | Percent of possible. | Percent of possible. | |
| Albany, N. Y. | T. | ..... | ..... | ..... | 16 | 22 | 35 | 42 | 49 | 48 | 43 | 36 | 27 | 16 | ..... | ..... | ..... | 85 | 81 | |
| Atlanta, Ga. | T. | ..... | 44 | 32 | 34 | 42 | 50 | 50 | 50 | 52 | 51 | 52 | 45 | 46 | 0 | ..... | ..... | 45 | 43 | |
| Atlantic City, N. J. | P. | ..... | 50 | 52 | 57 | 62 | 65 | 56 | 54 | 52 | 52 | 53 | 39 | ..... | ..... | ..... | 54 | 44 | | |
| Baltimore, Md. | T. | ..... | 43 | 51 | 71 | 71 | 71 | 67 | 73 | 70 | 48 | 29 | ..... | ..... | ..... | 176.9 | 293.7 | 60 | 54 | |
| Binghamton, N. Y. | T. | ..... | 8 | 31 | 33 | 43 | 37 | 42 | 28 | 21 | 18 | 13 | ..... | ..... | ..... | 79.4 | 284.7 | 28 | 25 | |
| Bismarck, N. Dak. | P. | ..... | 38 | 49 | 56 | 64 | 63 | 57 | 64 | 61 | 42 | 33 | ..... | ..... | ..... | 148.0 | 265.6 | 56 | 55 | |
| Boise | P. | | 41 | 39 | 44 | 41 | 34 | 38 | 49 | 41 | 33 | 40 | 33 | | | | 112.3 | 277.7 | 40 | 42 |
| Boston, Mass. | T. | ..... | 42 | 48 | 55 | 62 | 64 | 63 | 58 | 52 | 46 | 38 | ..... | ..... | ..... | 153.1 | 284.7 | 54 | 47 | |
| Buffalo, N. Y. | T. | ..... | 0 | 6 | 16 | 21 | 25 | 31 | 26 | 15 | 7 | 7 | ..... | ..... | ..... | 47.2 | 281.0 | 17 | 11 | |
| Charleston, S. C. | T. | | 32 | 29 | 28 | 36 | 42 | 60 | 57 | 58 | 48 | 37 | 36 | 67 | | | 184.1 | 310.7 | 43 | 42 |
| Chattanooga, Tenn. | T. | ..... | 18 | 20 | 25 | 39 | 46 | 51 | 45 | 41 | 48 | 47 | 39 | ..... | ..... | 192.4 | 305.2 | 40 | 43 | |
| Cheyenne, Wyo. | P. | ..... | 65 | 77 | 79 | 80 | 80 | 80 | 75 | 68 | 61 | 61 | ..... | ..... | ..... | 217.9 | 287.8 | 76 | 59 | |
| Chicago, Ill. | T. | ..... | 32 | 39 | 53 | 58 | 61 | 63 | 56 | 49 | 46 | 43 | ..... | ..... | ..... | 145.7 | 284.7 | 51 | 47 | |
| Cincinnati, Ohio | T. | ..... | 52 | 52 | 51 | 56 | 63 | 67 | 66 | 57 | 54 | 51 | ..... | ..... | ..... | 180.5 | 283.7 | 58 | 51 | |
| Cleveland, Ohio | T. | ..... | 13 | 13 | 14 | 18 | 23 | 30 | 31 | 34 | 27 | 26 | ..... | ..... | ..... | 66.0 | 284.7 | 28 | 23 | |
| Columbia, Mo. | T. | ..... | 56 | 60 | 64 | 67 | 70 | 68 | 72 | 65 | 65 | 63 | ..... | ..... | ..... | 191.2 | 283.7 | 65 | 51 | |
| Columbus, Ohio | T. | ..... | 48 | 45 | 40 | 43 | 49 | 51 | 49 | 44 | 42 | 41 | ..... | ..... | ..... | 192.1 | 291.7 | 45 | 41 | |
| Denver, Colo. | P. | ..... | 75 | 82 | 88 | 92 | 90 | 85 | 89 | 87 | 85 | 71 | ..... | ..... | ..... | 248.2 | 281.7 | 85 | 68 | |
| Des Moines, Iowa | T. | ..... | 57 | 55 | 63 | 61 | 61 | 64 | 52 | 46 | 47 | ..... | ..... | ..... | 162.8 | 284.7 | 57 | 53 | | |
| Detroit, Mich. | T. | ..... | 0 | 5 | 20 | 32 | 36 | 38 | 29 | 22 | 9 | 4 | ..... | ..... | ..... | 59.6 | 284.7 | 21 | 23 | |
| Dodge, Kans. | P. | ..... | 36 | 54 | 71 | 76 | 79 | 76 | 78 | 81 | 71 | 74 | 69 | ..... | ..... | 217.3 | 296.7 | 73 | 64 | |
| Dubuque, Iowa | T. | ..... | 37 | 43 | 61 | 63 | 64 | 72 | 73 | 68 | 55 | 53 | ..... | ..... | ..... | 169.3 | 284.7 | 59 | 54 | |
| Eastport, Me. | T. | ..... | 27 | 35 | 50 | 45 | 39 | 40 | 45 | 39 | 31 | 21 | ..... | ..... | ..... | 107.2 | 274.3 | 39 | 32 | |
| Erie, Pa. | T. | ..... | 7 | 8 | 18 | 19 | 25 | 21 | 15 | 15 | 10 | 10 | ..... | ..... | ..... | 43.4 | 284.7 | 15 | 18 | |
| Eureka, Cal. | P. | ..... | 37 | 38 | 46 | 44 | 58 | 61 | 58 | 58 | 44 | 44 | 44 | ..... | ..... | 144.7 | 287.8 | 50 | 49 | |
| Fresno, Cal.* | T. | ..... | 20 | 27 | 51 | 52 | 54 | 55 | 52 | 51 | 61 | 54 | 43 | 25 | ..... | 156.9 | 320.2 | 49 | 44 | |
| Galveston, Tex. | P. | ..... | 33 | 39 | 45 | 51 | 58 | 55 | 51 | 38 | 42 | 45 | ..... | ..... | ..... | 134.3 | 291.7 | 46 | 45 | |
| Harrisburg, Pa. | T. | ..... | 27 | 33 | 48 | 55 | 46 | 54 | 52 | 51 | 46 | 39 | ..... | ..... | ..... | 124.9 | 265.6 | 47 | 44 | |
| Helena, Mont. | T. | ..... | 47 | 45 | 58 | 71 | 74 | 77 | 73 | 67 | 54 | 50 | ..... | ..... | ..... | 174.8 | 277.7 | 63 | 55 | |
| Huron, S. Dak. | T. | ..... | 20 | 19 | 22 | 26 | 24 | 24 | 23 | 23 | 25 | 25 | ..... | ..... | ..... | 85.4 | 281.0 | 30 | 32 | |
| Idaho Falls, Idaho | T. | ..... | 39 | 44 | 46 | 47 | 49 | 50 | 53 | 49 | 50 | 47 | ..... | ..... | ..... | 139.0 | 291.7 | 48 | 39 | |
| Indianapolis, Ind. | T. | ..... | 37 | 36 | 43 | 53 | 58 | 59 | 66 | 62 | 60 | 50 | 37 | 48 | ..... | 166.0 | 317.8 | 52 | 49 | |
| Jacksonville, Fla. | T. | ..... | 62 | 69 | 67 | 68 | 60 | 58 | 66 | 58 | 59 | 56 | ..... | ..... | ..... | 185.9 | 293.7 | 63 | 63 | |
| Kansas City, Mo. | T. | ..... | 31 | 36 | 56 | 75 | 82 | 81 | 86 | 88 | 77 | 64 | 44 | 45 | ..... | 220.7 | 329.1 | 67 | 51 | |
| Key West, Fla. | T. | ..... | 17 | 32 | 37 | 55 | 59 | 61 | 57 | 66 | 64 | 58 | 51 | ..... | ..... | 163.9 | 302.5 | 54 | 49 | |
| Knoxville, Tenn. | T. | ..... | 36 | 48 | 51 | 62 | 69 | 70 | 75 | 78 | 69 | 64 | 68 | ..... | ..... | 198.0 | 305.2 | 65 | 57 | |
| Little Rock, Ark. | T. | ..... | 67 | 74 | 74 | 75 | 74 | 74 | 79 | 78 | 77 | 68 | 62 | 100 | ..... | 226.0 | 307.7 | 73 | 64 | |
| Los Angeles, Cal. | P. | ..... | 100 | 50 | 47 | 48 | 55 | 52 | 51 | 46 | 35 | 47 | 44 | 44 | ..... | 141.7 | 296.7 | 48 | 42 | |
| Louisville, Ky. | T. | ..... | 44 | 45 | 59 | 71 | 74 | 72 | 73 | 70 | 58 | 53 | ..... | ..... | ..... | 174.2 | 274.3 | 64 | 52 | |
| Minneapolis, Minn. | T. | ..... | 17 | 35 | 39 | 59 | 61 | 68 | 67 | 62 | 56 | 48 | 44 | 44 | ..... | 184.1 | 302.5 | 54 | 54 | |
| Nashville, Tenn. | T. | ..... | 19 | 13 | 7 | 16 | 26 | 25 | 34 | 32 | 32 | 18 | 29 | 48 | ..... | 174.1 | 317.8 | 23 | 33 | |
| New Orleans, La. | T. | ..... | 28 | 44 | 55 | 62 | 58 | 60 | 56 | 54 | 43 | 35 | ..... | ..... | ..... | 146.3 | 285.8 | 51 | 43 | |
| New York, N. Y. | T. | | 14 | 16 | 38 | 41 | 39 | 33 | 37 | 28 | 14 | 9 | 3 | | | | 80.0 | 277.7 | 29 | 22 |
| Northfield, Vt. | T. | ..... | 45 | 60 | 64 | 65 | 71 | 75 | 71 | 67 | 63 | 69 | 66 | ..... | ..... | 206.1 | 305.2 | 68 | 63 | |
| Oklahoma, Okla. | T. | ..... | 58 | 60 | 66 | 67 | 58 | 73 | 76 | 70 | 60 | 50 | ..... | ..... | ..... | 186.2 | 287.8 | 65 | 60 | |
| Omaha, Nebr. | T. | ..... | 25 | 29 | 38 | 59 | 63 | 60 | 58 | 50 | 41 | 39 | ..... | ..... | ..... | 137.8 | 293.7 | 47 | 48 | |
| Parkersburg, W. Va. | P. | ..... | 56 | 67 | 72 | 75 | 79 | 78 | 77 | 79 | 74 | 68 | 65 | 100 | ..... | 227.7 | 310.7 | 73 | 65 | |
| Phoenix, Ariz. | T. | ..... | 44 | 48 | 58 | 58 | 65 | 63 | 56 | 55 | 46 | 41 | ..... | ..... | ..... | 158.0 | 291.7 | 54 | 40 | |
| Philadelphia, Pa. | T. | ..... | 12 | 17 | 30 | 35 | 37 | 37 | 35 | 21 | 19 | 20 | 20 | ..... | ..... | 78.1 | 287.8 | 27 | 29 | |
| Pittsburg, Pa. | T. | ..... | 25 | 38 | 56 | 60 | 73 | 70 | 65 | 58 | 42 | 28 | ..... | ..... | ..... | 151.1 | 277.7 | 54 | 45 | |
| Portland, Me. | T. | ..... | 30 | 26 | 30 | 35 | 38 | 39 | 31 | 30 | 25 | 25 | ..... | ..... | ..... | 185.8 | 289.6 | 32 | 35 | |
| Portland, Oreg. | T. | ..... | 0 | 20 | 30 | 45 | 49 | 52 | 53 | 53 | 44 | 31 | 31 | ..... | ..... | 131.0 | 302.5 | 43 | 45 | |
| Raleigh, N. C. | T. | ..... | 8 | 4 | 8 | 15 | 17 | 11 | 15 | 16 | 9 | 3 | ..... | ..... | ..... | 31.2 | 281.0 | 11 | 12 | |
| Rochester, N. Y. | T. | ..... | 43 | 51 | 58 | 63 | 72 | 75 | 71 | 65 | 59 | 50 | ..... | ..... | ..... | 180.8 | 293.7 | 62 | 55 | |
| St. Paul, Minn. | P. | ..... | 49 | 52 | 56 | 71 | 69 | 65 | 70 | 64 | 64 | 58 | ..... | ..... | ..... | 172.0 | 274.3 | 68 | 60 | |
| Salt Lake City, Utah. | P. | ..... | 45 | 45 | 49 | 52 | 56 | 60 | 65 | 57 | 55 | 44 | ..... | ..... | ..... | 153.6 | 287.8 | 53 | 46 | |
| San Diego, Cal. | T. | ..... | 76 | 73 | 74 | 76 | 79 | 82 | 80 | 84 | 78 | 73 | 100 | ..... | ..... | 241.7 | 310.7 | 78 | 74 | |
| San Francisco, Cal. | T. | ..... | 31 | 58 | 74 | 76 | 86 | 87 | 85 | 83 | 75 | 39 | ..... | ..... | ..... | 210.3 | 296.7 | 71 | 53 | |
| Santa Fe, N. Mex. | T. | ..... | 83 | 67 | 70 | 73 | 75 | 75 | 82 | 82 | 80 | 80 | ..... | ..... | ..... | 225.2 | 302.5 | 74 | 70 | |
| Savannah, Ga. | T. | ..... | 30 | 32 | 38 | 50 | 53 | 58 | 60 | 55 | 50 | 46 | 42 | 67 | ..... | 149.9 | 313.0 | 48 | 43 | |
| Seattle, Wash. | T. | ..... | 13 | 18 | 30 | 35 | 48 | 54 | 51 | 44 | 31 | 31 | 31 | 31 | ..... | 98.1 | 202.1 | 37 | 33 | |
| Spokane, Wash. | T. | ..... | 10 | 12 | 29 | 45 | 50 | 62 | 49 | 31 | 31 | 31 | 31 | 31 | ..... | 98.6 | 262.1 | 38 | 40 | |
| Tacoma, Wash. | T. | ..... | 12 | 12 | 22 | 30 | 36 | 37 | 35 | 31 | 31 | 28 | 23 | 23 | ..... | 74.1 | 265.6 | 28 | 26 | |
| Tampa, Fla. | T. | ..... | 42 | 38 | 46 | 63 | 59 | 65 | 64 | 60 | 50 | 36 | 27 | 32 | ..... | 162.6 | 322.9 | 50 | 42 | |
| Topeka, Kans. | T. | ..... | 59 | 57 | 64 | 69 | 70 | 65 | 63 | 65 | 57 | 53 | ..... | ..... | ..... | 184.1 | 293.7 | 63 | 55 | |
| Vicksburg, Miss. | T. | ..... | 21 | 19 | 22 | 38 | 47 | 49 | 54 | 53 | 51 | 38 | 26 | 33 | ..... | 123.5 | 313.0 | 39 | 40 | |
| Washington, D. C. | P. | ..... | 43 | 43 | 53 | 55 | 57 | 60 | 61 | 62 | 60 | 54 | ..... | ..... | ..... | 161.0 | 293.7 | 55 | 47 | |
| Wilmington, N. C. | T. | ..... | 22 | 14 | 27 | 35 | 49 | 50 | 58 | 51 | 53 | 40 | 27 | 0 | ..... | 123.3 | 307.7 | 40 | 37 | |
| Yankton, S. Dak. | T. | ..... | 54 | 62 | | | | | | | | | | | | | | | | |

TABLE X.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during December, 1898, at all stations furnished with self-registering gauges.

| Stations. | Date. | Total duration. | | Total amt. of precipi- tation. | Excessive rate. | | Amount be- fore exces- sive began. | Depths of precipitation (in inches) during periods of time as indicated. | | | | | | | | | | | | | |
|-----------------------|-------|-----------------|------------|--------------------------------------|-----------------|------------|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| Albany, N. Y. | 31 | 2 | 3 | 0.52 | 5 | 6 | | | | | | | | | | | | | * | | |
| Atlanta, Ga. | 29 | 8.15 a.m. | 1.25 p.m. | 1.81 | 8.53 a.m. | 9.08 a.m. | 0.45 | 0.25 | 0.40 | 0.45 | 0.48 | 0.51 | 0.54 | 0.57 | 0.62 | 0.70 | 0.76 | 0.80 | 0.85 | | |
| Atlantic City, N. J. | 22 | | | 0.66 | | | | | | | | | | | | | | | * | | |
| Baltimore, Md. | 8-4 | | | 0.97 | | | | | | | | | | | | | | | * | | |
| Binghamton, N. Y. | 19-20 | | | 0.37 | | | | | | | | | | | | | | | * | | |
| Bismarck, N. Dak. | 27 | | | 0.20 | | | | | | | | | | | | | | | * | | |
| Boise, Idaho | 18-19 | | | 0.24 | | | | | | | | | | | | | | | * | | |
| Boston, Mass. | 23-23 | | | 0.48 | | | | | | | | | | | | | | | 0.23 | | |
| Buffalo, N. Y. | 4-5 | | | 0.86 | | | | | | | | | | | | | | | * | | |
| Cairo, Ill. | 18-19 | | | 0.81 | | | | | | | | | | | | | | | 0.27 | | |
| Charleston, S. C. | 22 | | | 0.35 | | | | | | | | | | | | | | | 0.29 | | |
| Chicago, Ill.* | | | | | | | | | | | | | | | | | | | | | |
| Cincinnati, Ohio | 4-5 | | | 0.87 | | | | | | | | | | | | | | | 0.18 | | |
| Cleveland, Ohio | 4-5 | | | 0.82 | | | | | | | | | | | | | | | * | | |
| Columbia, Mo. | 18-19 | | | 0.61 | | | | | | | | | | | | | | | 0.19 | | |
| Columbus, Ohio | 4-5 | | | 0.38 | | | | | | | | | | | | | | | * | | |
| Denver, Colo. | 29-30 | | | 0.40 | | | | | | | | | | | | | | | 0.07 | | |
| Des Moines, Iowa | 18-19 | | | 0.35 | | | | | | | | | | | | | | | * | | |
| Detroit, Mich. | 4-5 | | | 1.07 | | | | | | | | | | | | | | | * | | |
| Dodge, Kans. | 18-19 | | | 1.22 | | | | | | | | | | | | | | | * | | |
| Duluth, Minn. | 26 | | | 0.09 | | | | | | | | | | | | | | | * | | |
| Eastport, Me. | 12-13 | | | 0.66 | | | | | | | | | | | | | | | * | | |
| Erie, Pa. | 7-8 | | | 1.03 | | | | | | | | | | | | | | | * | | |
| Fort Worth, Tex. | 17-18 | | | 1.64 | | | | | | | | | | | | | | | 0.56 | | |
| Fresno, Cal. | 14-15 | | | 0.32 | | | | | | | | | | | | | | | * | | |
| Galveston, Tex. | 18 | | | 0.77 | | | | | | | | | | | | | | | 0.52 | | |
| Hannibal, Mo. | 18-19 | | | 0.60 | | | | | | | | | | | | | | | 0.16 | | |
| Harrisburg, Pa. | 3-4 | | | 0.92 | | | | | | | | | | | | | | | 0.20 | | |
| Hatteras, N. C. | 4 | 7.40 a.m. | 11.00 a.m. | 1.54 | 9.20 a.m. | 10.20 a.m. | 0.99 | 0.05 | 0.13 | 0.17 | 0.21 | 0.23 | 0.26 | 0.33 | 0.43 | 0.53 | 0.66 | 1.00 | 1.06 | 1.15 | |
| Huron, S. Dak. | 2-3 | | | 0.04 | | | | | | | | | | | | | | | * | | |
| Idaho Falls, Idaho | 28-29 | | | 0.52 | | | | | | | | | | | | | | | * | | |
| Indianapolis, Ind. | 19 | | | 1.08 | | | | | | | | | | | | | | | 0.19 | | |
| Jacksonville, Fla. | 3-4 | 10.25 p.m. | D. N. | 0.70 | 11.57 p.m. | 12.05 a.m. | 0.03 | 0.55 | 0.67 | | | | | | | | | | 0.42 | | |
| Jupiter, Fla. | 4 | | | 0.65 | | | | | | | | | | | | | | | * | | |
| Kansas City, Mo. | 3-4 | | | 0.80 | | | | | | | | | | | | | | | 0.21 | | |
| Key West, Fla. | 2 | 10.50 a.m. | 11.40 a.m. | 1.08 | 11.12 a.m. | 11.32 a.m. | 0.05 | 0.15 | 0.45 | 0.55 | 0.75 | 1.00 | 1.03 | | | | | | 0.29 | | |
| Knoxville, Tenn. | 4 | | | 0.49 | | | | | | | | | | | | | | | * | | |
| Lincoln, Nebr. | 18-19 | | | 0.26 | | | | | | | | | | | | | | | 0.21 | | |
| Little Rock, Ark. | 17-18 | | | 0.53 | | | | | | | | | | | | | | | 0.08 | | |
| Los Angeles, Cal. | 14 | | | 0.10 | | | | | | | | | | | | | | | 0.31 | | |
| Louisville, Ky. | 18-19 | | | 0.78 | | | | | | | | | | | | | | | 0.37 | | |
| Memphis, Tenn. | 3-4 | | | 1.76 | | | | | | | | | | | | | | | 0.08 | | |
| Milwaukee, Wis. | 19-20 | | | 0.44 | | | | | | | | | | | | | | | 0.38 | | |
| Montgomery, Ala. | 19 | | | 1.14 | | | | | | | | | | | | | | | 0.13 | | |
| Nantucket, Mass. | 22-23 | | | 0.95 | | | | | | | | | | | | | | | 0.29 | | |
| Nashville, Tenn. | 3-4 | | | 1.16 | | | | | | | | | | | | | | | 0.18 | | |
| New Orleans, La. | 18 | | | 0.45 | | | | | | | | | | | | | | | 0.20 | | |
| New York, N. Y. | 4 | | | 0.78 | | | | | | | | | | | | | | | 0.24 | | |
| Norfolk, Va. | 20 | 7.10 a.m. | 9.35 a.m. | 0.54 | 7.40 a.m. | 8.00 a.m. | T. | 0.07 | 0.16 | 0.30 | 0.52 | | | | | | | | * | | |
| Northfield, Vt. | 4-5 | | | 0.44 | | | | | | | | | | | | | | | * | | |
| Oklahoma, Okla. | 17-18 | | | 2.45 | | | | | | | | | | | | | | | * | | |
| Omaha, Nebr. | 3 | | | 0.14 | | | | | | | | | | | | | | | 0.04 | | |
| Parkersburg, W. Va. | 4-5 | | | 0.72 | | | | | | | | | | | | | | | 0.18 | | |
| Philadelphia, Pa. | 22-23 | | | 0.98 | | | | | | | | | | | | | | | 0.24 | | |
| Pittsburg, Pa. | 4-5 | | | 0.65 | | | | | | | | | | | | | | | * | | |
| Portland, Me. | 4-5 | | | 0.97 | | | | | | | | | | | | | | | 0.17 | | |
| Portland, Oreg. | 18-19 | | | 0.87 | | | | | | | | | | | | | | | 0.27 | | |
| Raleigh, N. C. | 3-4 | | | 0.65 | | | | | | | | | | | | | | | 0.30 | | |
| Richmond, Va. | 19-20 | | | 0.85 | | | | | | | | | | | | | | | 0.34 | | |
| Rochester, N. Y. | 4-5 | | | 0.99 | | | | | | | | | | | | | | | * | | |
| St. Louis, Mo. | 18-19 | | | 0.53 | | | | | | | | | | | | | | | 0.16 | | |
| St. Paul, Minn. | 23 | | | 0.06 | | | | | | | | | | | | | | | 0.03 | | |
| Salt Lake City, Utah | 29 | | | 0.60 | | | | | | | | | | | | | | | * | | |
| San Diego, Cal. | 9 | | | 0.26 | | | | | | | | | | | | | | | 0.15 | | |
| San Francisco, Cal. | 19 | | | 0.70 | | | | | | | | | | | | | | | 0.19 | | |
| Savannah, Ga. | 20-21 | | | 1.07 | | | | | | | | | | | | | | | 0.30 | | |
| Seattle, Wash. | 18-19 | | | 0.86 | | | | | | | | | | | | | | | 0.20 | | |
| Spokane, Wash. | 4 | | | 0.50 | | | | | | | | | | | | | | | * | | |
| Tampa, Fla. | 2-3 | | | 1.76 | | | | | | | | | | | | | | | * | | |
| Vicksburg, Miss. | 18 | 12.05 p.m. | 8.10 p.m. | 1.47 | 4.30 p.m. | 5.10 p.m. | 0.33 | 0.16 | 0.29 | 0.33 | 0.38 | 0.43 | 0.45 | 0.50 | 0.57 | | | | 0.28 | | |
| Washington, D. C. | 22-23 | | | 0.84 | | | | | | | | | | | | | | | 0.30 | | |
| Wilmington, N. C. | 2 | | | 0.90 | | | | | | | | | | | | | | | * | | |
| Yankton, S. Dak. | 2-3 | | | 0.08 | | | | | | | | | | | | | | | 0.45 | | |
| Basseterre, St. Kitts | 18 | | | 0.52 | | | | | | | | | | | | | | | 0.31 | | |
| Bridgetown, Barbados | 25-26 | | | 0.75 | | | | | | | | | | | | | | | 0.31 | | |
| Colon, U. S. C. | 11-12 | 7.10 p.m. | 3.00 a.m. | 3.84 | 8.38 p.m. | 9.43 p.m. | 0.45 | 0.28 | 0.57 | 0.78 | 1.06 | 1.26 | 1.36 | 1.69 | 2.06 | 2.35 | 2.59 | 2.88 | 3.03 | 3.07 | |
| Kingston, Jamaica | 18 | | | 0.05 | | | | | | | | | | | | | | | 0.05 | | |
| Port of Spain, Trin. | 27 | 5.55 a.m. | 7.00 a.m. | 0.55 | 6.10 a.m. | 6.30 a.m. | 0.05 | 0.10 | 0.33 | 0.44 | 0.49 | | | | | | | | | | |
| Roseau, Dominica | 23 | 6.50 p.m. | 8.45 p.m. | 1.08 | 7.45 p.m. | 8.00 p.m. | 0.32 | 0.17 | 0.43 | 0.57 | 0.61 | | | | | | | | | | |
| San Juan, Porto Rico | 25 | 2.20 p.m. | 3.47 p.m. | 0.65 | 2.23 p.m. | 2.36 p.m. | 0.02 | 0.27 | 0.52 | 0.61 | | | | | | | | | | | |
| Santiago de Cuba | 6 | | | 0.04 | | | | | | | | | | | | | | | 0.04 | | |
| Santo Domingo, S. D. | 23 | 2.25 p.m. | 4.45 p.m. | 0.53 | 2.27 p.m. | 2.40 p.m. | 0.01 | 0.16 | 0.34 | 0.39 | 0.40 | | | | | | | | | | |
| Willemstad, Curaçao | 27 | | | 0.34 | | | | | | | | | | | | | | | | | |

* Record incomplete on account of snow or other causes.

TABLE XI.—*Excessive precipitation, by stations, for December, 1898.*

| Stations. | Monthly rainfall 10 inches, or more | Rainfall 2.50 inches, or more, in 24 hours. | | Rainfall of 1 inch, or more, in one hour. | | Amt. | Day. | Amt. | Time. | Day. |
|-----------------------------|--|--|---------|---|------|------|------|------|-------|------|
| | | Inches. | Inches. | Inches. | h.m. | | | | | |
| <i>Alabama.</i> | | | | | | | | | | |
| Healing Springs | | 2.58 | | 18 | | | | | | |
| Pushmataha | | 3.75 | | 17 | | | | | | |
| Scottsboro | | 3.30 | | 18-19 | | | | | | |
| Thomasville | | 3.00 | | 19 | | | | | | |
| Tuscaloosa | | 3.00 | | 19 | | | | | | |
| Union | | 4.20 | | 18 | | | | | | |
| <i>Alaska.</i> | | | | | | | | | | |
| Sitka | 10.99 | | | | | | | | | |
| <i>Arkansas.</i> | | | | | | | | | | |
| Mossville | | 3.43 | | 18-19 | | | | | | |
| <i>California.</i> | | | | | | | | | | |
| Bowmans Dam | | 2.70 | | 19-20 | | | | | | |
| Kennedy Gold Mine | | 2.78 | | 19-20 | | | | | | |
| <i>Florida.</i> | | | | | | | | | | |
| Key West | | 3.00 | | 20-21 | | | | | | |
| Lake Butler | | 3.40 | | 20-21 | | | | | | |
| Lake City | | 3.36 | | 20-21 | | | | | | |
| Macclenny | | 11.80 | | 6.10 | | | | | | |
| St. Andrews | | 3.20 | | 15 | | | | | | |
| Sebastian | | 2.58 | | 10 | | | | | | |
| Tarpon Springs | | 2.95 | | 17-18 | | | | | | |
| <i>Indian Territory.</i> | | | | | | | | | | |
| Lehigh | | 2.66 | | 18-19 | | | | | | |
| Tulsa | | 2.50 | | 18 | | | | | | |
| <i>Louisiana.</i> | | | | | | | | | | |
| Mansfield | | 2.82 | | 18-19 | | | | | | |
| Oakridge | | 2.50 | | 18 | | | | | | |
| <i>Mississippi.</i> | | | | | | | | | | |
| Biloxi | | 2.70 | | 18-19 | | | | | | |
| Magnolia | | 2.72 | | 18 | | | | | | |
| <i>Missouri.</i> | | | | | | | | | | |
| Lebanon | | 2.50 | | 12 | | | | | | |
| <i>North Carolina.</i> | | | | | | | | | | |
| Beaufort | | 2.80 | | 4 | | | | | | |
| Hatteras | | 1.00 | | 100 | | | | | | |

TABLE XI.—*Excessive precipitation—Continued.*

| Stations. | Monthly rainfall 10 inches, or more | Rainfall 2.50 inches, or more, in 24 hours. | | Rainfall of 1 inch, or more, in one hour. | | Amt. | Day. | Amt. | Time. | Day. |
|------------------------------|--|--|---------|---|------|------|------|------|-------|------|
| | | Inches. | Inches. | Inches. | h.m. | | | | | |
| <i>Oklahoma.</i> | | | | | | | | | | |
| Clifton | | 2.54 | | 17-18 | | | | | | |
| Edmond | | 2.50 | | 18 | | | | | | |
| Guthrie | | 2.90 | | 17-18 | | | | | | |
| Hennessey | | 3.00 | | 17-18 | | | | | | |
| Pawhuska | | 4.11 | | 18-19 | | | | | | |
| Sac and Fox Agency | | 4.00 | | 17-18 | | | | | | |
| Stillwater | | 2.63 | | 17-18 | | | | | | |
| Winnview | | 2.50 | | 18 | | | | | | |
| <i>Oregon.</i> | | | | | | | | | | |
| Astoria | | 11.19 | | 2.30 | | | | | | |
| Bay City | | 12.00 | | | | | | | | |
| Glenora | | 14.23 | | 3.20 | | | | | | |
| Government Camp | | 12.10 | | | | | | | | |
| Nehalem | | 16.51 | | 4.43 | | | | | | |
| <i>South Carolina.</i> | | | | | | | | | | |
| Gillisonville | | 2.76 | | 3 | | | | | | |
| <i>Texas.</i> | | | | | | | | | | |
| Alvin | | 2.80 | | 17-18 | | | | | | |
| Corsicana | | 2.52 | | 17-18 | | | | | | |
| Estelle | | 2.35 | | 17-18 | | | | | | |
| Gainesville | | 2.60 | | 17 | | | | | | |
| Mann | | 2.50 | | 16-17 | | | | | | |
| Palestine | | 3.20 | | 16 | | | | | | |
| Waxahachie | | | | | | | | | | |
| <i>Virginia.</i> | | | | | | | | | | |
| Leesburg | | 2.83 | | 4 | | | | | | |
| <i>Washington.</i> | | | | | | | | | | |
| Aberdeen | | 10.92 | | | | | | | | |
| Cedar Lake | | 12.48 | | | | | | | | |
| Clearwater | | 18.05 | | 7.57 | | | | | | |
| Fort Canby | | 2.99 | | 24-25 | | | | | | |
| Neah | | 12.66 | | 2.74 | | | | | | |
| <i>West Indies.</i> | | | | | | | | | | |
| Colon | | 4.02 | | 11-12 | | | | | | |

TABLE III.—*Data furnished by the Canadian Meteorological Service, December, 1898.*

| Stations | Pressure. | | | Temperature. | | | Precipitation. | | | Stations. | Pressure. | | | Temperature. | | | Precipitation. | | | | |
|---------------------------------|-------------------|---------------|------------------------|--------------|------------------------|----------------|----------------|------------------------|----------------|-----------------------|-----------------------------|---------------|------------------------|--------------|---------------|--------|------------------------|----------------|--------|------|-----|
| | Mean not reduced. | Mean reduced. | Departure from normal. | Mean. | Departure from normal. | Mean, max-min. | Total. | Departure from normal. | Depth of snow. | | Mean. | Mean reduced. | Departure from normal. | Mean. | Mean min-max. | Total. | Departure from normal. | Depth of snow. | | | |
| St. Johns, N. F. | Inch. | Inch. | Inch. | ° | ° | ° | Inch. | Inch. | Inch. | Saugeen, Ont. | Inch. | Inch. | Inch. | ° | ° | ° | Inch. | Inch. | | | |
| 29.63 | 29.78 | —.06 | 30.4 | + 1.7 | 36.6 | 24.2 | 6.08 | —.08 | 3.5 | 29.19 | 29.94 | —.08 | 25.7 | — 1.0 | 31.7 | 19.7 | 4.82 | + 0.69 | 44.0 | | |
| Sydney, C. B. I. | 29.83 | 29.87 | —.01 | 29.3 | + 1.1 | 36.1 | 22.5 | 5.70 | + 0.98 | 35.0 | 29.19 | 29.93 | —.10 | 20.6 | — 0.6 | 29.6 | 11.7 | 6.09 | + 2.16 | 52.9 | |
| Halifax, N. S. | 29.83 | 29.97 | + .02 | 30.0 | + 2.4 | 37.2 | 22.8 | 4.07 | + 1.22 | 17.4 | 29.18 | 29.93 | + .09 | 12.2 | + 1.0 | 32.3 | 2.1 | 0.29 | + 0.57 | 2.8 | |
| Grand Manan, N. B. | 29.87 | 29.92 | —.07 | 28.5 | + 0.2 | 36.1 | 21.0 | 3.93 | — 0.73 | 19.7 | 29.13 | 30.03 | —.07 | 4.3 | + 0.2 | 15.1 | — 6.5 | 0.61 | + 0.58 | 6.1 | |
| Yarmouth, N. S. | 29.88 | 29.98 | —.00 | 31.7 | + 1.0 | 38.7 | 24.7 | 4.31 | — 0.96 | 22.1 | 28.11 | 30.05 | —.05 | 10.2 | + 4.5 | 20.7 | — 0.4 | 0.14 | + 0.59 | 1.4 | |
| Charlottet' n, P. E. I. | 29.85 | 29.89 | —.03 | 26.6 | + 2.3 | 33.3 | 19.8 | 3.77 | — 1.23 | 13.7 | 27.66 | 30.06 | —.06 | 11.4 | + 4.0 | 19.6 | 3.2 | 0.23 | + 0.41 | 6.7 | |
| Chatham, N. B. | 29.87 | 29.89 | —.05 | 18.8 | + 1.8 | 26.9 | 10.7 | 1.82 | — 1.15 | 11.8 | 27.70 | 30.10 | —.06 | 20.5 | + 2.3 | 31.5 | 9.6 | 0.67 | + 0.31 | 1.3 | |
| Father Point, Que. | 29.84 | 29.87 | —.08 | 15.9 | + 0.5 | 24.8 | 7.6 | 1.70 | — 0.52 | 13.4 | 27.42 | 30.14 | + .02 | 17.8 | + 1.8 | 25.1 | 10.4 | 0.13 | + 0.58 | 1.3 | |
| Quebec, Que. | 29.57 | 29.92 | —.09 | 16.5 | + 1.3 | 24.4 | 8.7 | 2.48 | — 1.83 | 17.1 | 26.58 | 30.06 | —.06 | 21.4 | + 3.2 | 31.0 | 11.8 | 0.40 | + 0.38 | 4.0 | |
| Montreal, Que. | 29.72 | 29.94 | —.09 | 19.2 | + 0.9 | 26.6 | 11.8 | 3.20 | — 0.36 | 30.9 | 23.36 | 30.19 | —.08 | 19.2 | — 1.0 | 36.3 | 12.1 | 0.20 | + 1.1 | | |
| Rockliffe, Ont. | 29.98 | 29.93 | —.10 | 14.7 | + 0.5 | 23.4 | 6.1 | 2.50 | — 0.24 | 22.4 | 27.61 | 30.00 | + .01 | 23.0 | + 9.9 | 31.4 | 14.6 | 0.28 | + 0.12 | 1.0 | |
| Ottawa, Ont. | 29.61 | 29.95 | —.00 | 17.8 | + 0.8 | 26.4 | 9.2 | 3.13 | — 0.76 | 27.2 | 28.35 | 29.98 | —.08 | 9.0 | + 6.1 | 19.0 | — 1.2 | 0.29 | + 2.9 | | |
| Kingston, Ont. | 29.63 | 29.97 | —.08 | 24.8 | + 1.1 | 32.7 | 17.0 | 1.68 | — 1.96 | 9.5 | 28.23 | 30.10 | —.08 | 10.8 | + 5.4 | 20.3 | 1.3 | 0.20 | + 2.0 | | |
| Toronto, Ont. | 29.58 | 29.98 | —.08 | 26.3 | + 0.7 | 32.9 | 19.8 | 2.57 | + 0.01 | 18.4 | Kamloops, B. C. | | | | | | | | | | |
| White River, Ont. | 29.51 | 29.96 | —.09 | 7.5 | + 2.2 | 20.6 | — 5.6 | 2.09 | + 0.65 | 20.9 | Esquimalt, B. C. | 30.14 | 30.17 | —.06 | 39.6 | — 1.7 | 43.9 | 35.3 | 4.11 | | 5.0 |
| Port Stanley, Ont. | 29.34 | 30.01 | —.06 | 26.9 | + 1.5 | 32.4 | 21.4 | 3.47 | + 0.86 | 28.8 | Hamilton, Bermuda | 30.02 | 30.18 | + .06 | 65.2 | + 0.5 | 69.8 | 60.6 | 1.48 | | |

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